

## Product datasheet for **SC126704**

### PCNA (NM\_182649) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PCNA (NM_182649) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCNA
Synonyms:	ATLD2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_182649, the custom clone sequence may differ by one or more nucleotides

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ATGTTTCGAGGCGCGCCTGGTCCAGGGCTCCATCCTCAAGAAGGTGTTGGAGGCACTCAAGGACCTCATCA
ACGAGGCCTGCTGGGATATTAGCTCCAGCGGTGTAACCTGCAGAGCATGGACTCGTCCCACGTCTCTTT
GGTGCAGCTCACCTGCGGTCTGAGGGCTTCGACACCTACCGCTGCGACCGCAACCTGGCCATGGGCGTG
AACCTCACCAGTATGTCCAAAATACTAAAATGCGCCGCAATGAAGATATCATTACACTAAGGGCCGAAG
ATAACGCGGATACCTTGGCGCTAGTATTTGAAGCACCAAACCAGGAGAAAGTTTCAGACTATGAAATGAA
GTTGATGGATTTAGATGTTGAACAACCTTGAATCCAGAACAGGAGTACAGCTGTGTAGTAAAGATGCCT
TCTGGTGAATTTGCACGTATATGCCGAGATCTCAGCCATATTGGAGATGCTGTTGTAATTTCTGTGCAA
AAGACGGAGTGAAATTTCTGCAAGTGGAGAACTTGGAAATGAAAACATTAATTTGTACAGACAAGTAA
TGTCGATAAAGAGGAGGAAGCTGTTACCATAGAGATGAATGAACCAAGTTCAACTAACTTTTGCAGTGGG
TACCTGAACCTCTTTACAAAAGCCACTCCACTCTTTCAACGGTGACACTCAGTATGTCTGCAGATGTAC
CCCTTGTGTAGAGTATAAAATTCGGATATGGGACACTTAAAATACTACTTGGCTCCCAAGATCGAGGA
TGAAGAAGGATCTTAG
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_182649 unedited  
 TCACTATAGGGCCGCCGGAATTCGGCACGAGGGCAGAGTGGTCGTTGTCTTTCTAGGTC  
 TCAGCCGGTCGTGCGGACGTTCCGCCGCTCGCTCTGAGGCTCCTGAAGCCGAAACCAGCT  
 AGACTTTCCTCCTCCCGCTGCCTGTAGCGGCGTTGTTGCCACTCCGCCACCATGTTCCG  
 AGGCGCGCCTGGTCCAGGGCTCCATCCTCAAGAAGGTGTTGGAGGCACTCAAGGACCTCA  
 TCAACGAGGCCTGCTGGGATATTAGCTCCAGCGGTGTAACCTGCAGAGCATGGACTCGT  
 CCCACGTCTCTTTGGTGCAGCTCACCTGCGGTCTGAGGGCTTCGACACCTACCGCTGCG  
 ACCGCAACCTGGCCATGGCGTGAACCTCACCAGTATGTCCAAAATACTAAAATGCGCCG  
 GCAATGAAGATATCATTACACTAAGGGCCGAAGATAACGCGGATACCTTGGCGCTAGTAT  
 TTGAAGCACCAAACCAGGAGAAAGTTTCAGACTATGAAATGAAGTTGATGGATTTAGATG  
 TTGAACAACCTGGAAATCCAGAACAGGAGTACAGCTGTGTAGTAAAGATGCCTTCTGGTG  
 AATNTGCACGTATATGCCGAGATCTCAGCCATATTGGAGATGCTNGTGAATTTCTGTG  
 CAAAGACGGAGTAAATTTCTGCAAGTGAAGTGAATGAAAACATAANNTGTCACAG  
 ACAGTATGTGATAAGAGGAGAAAGCTGTACATAGAGATGATGAACCAGTCACTAACTTT  
 GCACTGAGACCCTGACTCTTTACAAGCCACTCACTTCTCACGTGACCCTATATGTGCGA  
 AGACCCCTGTGAAAGTTAAATGCGTATGGCACTAAAATACTGCTCCAGATCAGTAANAA  
 GACTAGCATCTAATCAGAAAACTAGCTTGAACGCTTAAAGCACATACGAACTTTGC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_182649 unedited  
 GAACGAGGCCGCTTTTAAAGTCGAGTTTTTTTTTTTTTTTTTTTGAATTCAGTAACCTTTA  
 TTTAAATTCAAAAACAATTTCTAAAACCTGCATTTAGAGTCAAGACCCTTTTGTATTATAA  
 AAATCACAAAGTATTTCTAAGAGACAAAAATACTTCTAGGTTAACTAGACCAGATCTGACT  
 TTGGACTTTATTCTTTAAACAAATTGGAGAGAATAGAGAAAAAATAGGTTATTTACAGA  
 AAACAATATCTACATATGTACTTAGAGGTACAAATTTGGTGACAGAAAAGACTTCAGTAT  
 ATGCTGGCATCTTAGAAGCAGTTCTCAAAGAGCTTAGTTTTATTTCTTGAATTTAAGA  
 ATGCCTAAGATCCTTCTTCATCCTCGATCTTGGGAGCCAAGTAGTATTTAAGTGTCCCA  
 TATCCGCAATTTTATACTCTACAACAAGGGGTACATCTGCAGACATACTGAGTGTACCCG  
 TTGAAGAGAGTGGAGTGGCTTTTGTAAAGAAGTTCAAGTACCTCAGTGCAAAAAGTTAGTT  
 GAAGTGGTTCATTCATCTCTATGGTAACAGCTTCTCCTCTTTATCGACATTACTGTCT  
 GAGACAATTTAATGTTCCATTTCCAAGTCTCCACTTGCAGAAAATTCCTCCGCTTTT  
 TGCACAGGAAATACAACAGCATCCTCCATATGGGCTGAGATCTCGGCATATACGTGCAA  
 ATTCACCAGAAAAGCATCTTTACTACACAGCTGTACTCCTGTTCTGCAATTCAGTTGTTT  
 AACTCTAAATCCTCAACCTCATTATATCTGAAACCTCCTCCTGTTGGGGCTCAATTCT  
 ANCGCCAGGATTCGGGTTATCTCCGCCCTTATGTATGTTTCCCATTGCCGCGCATTAGTT  
 TTGGGACTCCGGGAGGCCCCCCAGGCAGTTGCGGCCAACGTAGGTTTAAACCCTAACCGA  
 AGGGCTGCCCAAAAACCTGGACAACCTGCCTGGGTACCGGGGAT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_182649

**Insert Size:**

1270 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).

<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_182649.1</a> , <a href="#">NP_872590.1</a>
<b>RefSeq Size:</b>	1319 bp
<b>RefSeq ORF:</b>	786 bp
<b>Locus ID:</b>	5111
<b>UniProt ID:</b>	<a href="#">P12004</a>
<b>Cytogenetics:</b>	20p12.3
<b>Protein Families:</b>	Druggable Genome, Stem cell - Pluripotency
<b>Protein Pathways:</b>	Base excision repair, Cell cycle, DNA replication, Mismatch repair, Nucleotide excision repair
<b>Gene Summary:</b>	<p>The protein encoded by this gene is found in the nucleus and is a cofactor of DNA polymerase delta. The encoded protein acts as a homotrimer and helps increase the processivity of leading strand synthesis during DNA replication. In response to DNA damage, this protein is ubiquitinated and is involved in the RAD6-dependent DNA repair pathway. Two transcript variants encoding the same protein have been found for this gene. Pseudogenes of this gene have been described on chromosome 4 and on the X chromosome. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same protein.</p>