

Product datasheet for **SC118528**

PCNA (NM_002592) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCNA (NM_002592) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCNA
Synonyms:	ATLD2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118528 sequence for NM_002592 edited (data generated by NextGen Sequencing)

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ATGTTTCGAGGCGCGCCTGGTCCAGGGCTCCATCCTCAAGAAGGTGTTGGAGGCACTCAAG
GACCTCATCAACGAGGCCTGCTGGGATATTAGCTCCAGCGGTGTAACCTGCAGAGCATG
GACTCGTCCCACGTCTCTTTGGTGCAGCTCACCTGCGGTCTGAGGGCTTCGACACCTAC
CGCTGCGACCGCAACCTGGCCATGGGCGTGAACCTCACCAGTATGTCCAAAATACTAAAA
TGCGCCGCAATGAAGATATCATTACACTAAGGGCCGAAGATAACGCGGATACCTTGCGG
CTAGTATTTGAAGCACCAAACCAGGAGAAAAGTTTCAGACTATGAAATGAAGTTGATGGAT
TTAGATGTTGAACAACCTTGAATTCCAGAACAGGAGTACAGCTGTGTAGTAAAGATGCCT
TCTGGTGAATTTGCACGTATATGCCGAGATCTCAGCCATATTGGAGATGCTGTTGTAATT
TCCTGTGCAAAAAGACGGAGTAAAATTTCTGCAAGTGGAGAAGTGGAAATGGAAACATT
AAATTGTCACAGACAAGTAAATGTCGATAAAGAGGAGGAAGCTGTTACCATAGAGATGAAT
GAACCAGTTCAACTAACTTTTGCAGTACCTGAACTTCTTTACAAAAGCCACTCCA
CTCTCTTCAACGGTGACACTCAGTATGTCTGCAGATGTACCCCTTGTGTAGAGTATAAA
ATTGCGGATATGGGACACTTAAAATACTACTTGGCTCCCAAGATCGAGGATGAAGAAGGA
TCTTAG
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Clone variation with respect to NM_002592.2



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002592 unedited NGGGTCAGCATTTGTATACGACTCCTATAGGGCGGCCGGAATTCGCACGAGGGCGCGCT TGCGGACGCGCGGCATTAACGGTTGCAGGACCAGCAGAGTGGTCGTTGTCTTTCTAGG TCTCAGCCGGTCGTCGCGACGTTTCGCCGCTCGCTCTGAGGCTCCTGAAGCCGAAACCAG CTAGACTTTCCTCTCCCGCCTGCCTGTAGCGGCGTTGTTGCCACTCCGCCACCATGTT CGAGGCGCGCCTGGTCCAGGGCTCCATCCTCAAGAAGGTGTTGGAGGCACTCAAGGACCT CATCAACGAGGCTGTGCGATATTAGCTCCAGCGGTGTAACCTGCAGAGCATGGACTC GTCCACGTCCTTTGGTGCAGCTCACCTGCGGTCTGAGGGCTTCGACACCTACCGCTG CGACCGCAACCTGGCCATGGGCGTGAACCTCACCAGTATGTCCAAAATACTAAAAATGCGC CGGCAATGAAGATATCATTACACTAAGGGCCGAAGATAACCGGATACCTTGGCGTAGT ATTTGAAGCACCAACCAGGAGAAAAGTTTCAGACTATGAAATGAAGTTGATGGATTTAGA TGTTGAACAACCTGGAATTCAGAACAGGAGTACAGCTGTGTAGTAAAGATGCCTTCTGG TGAATTTGCAGTATATGCCGAGATCTCAGCCATATTGGAGATGCTGTTGAATTTCTG CGAAAAGACGGAGTGAATTTTCTGCAAGTGGAGAAGTTGGGAATGGAACATTAATTT GTCACAGACAAGTAATGTCGATAAAAAGANAGGAACCTGTTACCATAGAGATGAATGAAC AGTNTCACTAACTTTTGCAGTGGAGTACCTGAACCTCTTTACAAAGCCACTCCACTCTCT TCA</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002592 unedited CGCGGGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGTGTTTTGAAATTCAGT AACTTTATTTAAATTCAAAAACAATTCTTAAAAGTGCATTTAGAGTCAAGACCTTTTGT ATTATAAAAATCACAAGTATTTCTAAGAGACAAAAATACTTCTAGTTAACTAGACCAGA TCTGACTTTGGACTTTATCTTTAAACAATTGCAGAGAATAGAGAAAAAATAGGTTAT TTACAGAAAACAATATCTACATATGTAAGTACTAGAGGTACAATTTGGTGACAGAAAAGACT TCAGTATATGCTGGCATCTTAGAAGCAGTTCTCAAAGAGCTTAGTTTTATTTTCTGAAT TTTAAGAATGCCTAAGATCCTTCTTCATCCTCGATCTTGGGAGCCAAGTAGTATTTAAG TGTCATATCCGCAATTTATACTCTACAACAAGGGTACATCTGCAGACATACTGAGT GTCACCGTTGAAGAGAGTGGAGTGGCTTTTGTAAAGAAGTTCAGGTACCTCAGTGCAAAA GTTAGTTGAACTGGTTCATTCATCTCTATGGTAACAGCTTCCTCCTTTATCGACATTA CTTGTCTGTGACAATTTAATGTTTCCATTTCCAAGNTCTCCACTGCAGAAAATTTCACTC CGTCTTTTGCACAGGAAATTACCACAGCATCTCCAATATGCCTGAGATCTCGGCATATAC GTGCAAAATTCACCACGAGGCATCTTACTACACAGCTGTACCTCTGGTCTGAAATTTCAA GTTGTAAACATCTAAATCCATCCACTTCATTCATAGCCTGAAAATTCTCTGGTTTGGGG CCTTAAAAACTACCGCAAGTATCCCGGTATCTCCGGCCCTTAGGGATGAAACCTCATTG CCGGCCTTTTAAATTTTGGCTAC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_002592
Insert Size:	1530 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_002592.2 , NP_002583.1
RefSeq Size:	1355 bp
RefSeq ORF:	786 bp
Locus ID:	5111
UniProt ID:	P12004
Cytogenetics:	20p12.3
Domains:	PCNA
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	Base excision repair, Cell cycle, DNA replication, Mismatch repair, Nucleotide excision repair
Gene Summary:	<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 (1) represents the longer transcript. Variants 1 and 2 encode the same protein.</p>