

## Product datasheet for **AR03008PU-L**

### PCNA (1-261) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	PCNA (1-261) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MFEARLVQGS ILKKVLEALK DLINEACWDI SSSGVNLQSM DSSHVSLVQL TLRSEGFDTY RCDRNLAMGV NLTSMKILK CAGNEDIITL RAEDNADTLA LVFEAPNQEK VSDYEMKLM LDVEQLGIPE QEYSCVVKMP SGEFARICRD LSHIGDAVVI SCAKDGVKFS ASGELGNGNI KLSQTSNVDK EEEAVTIEMN EPVQLTFALR YLNFFTKATP LSSTVTLSMS ADVPLVWEYK IADMGHLYY LAKIEDEEG S
Predicted MW:	28 kDa
Concentration:	lot specific
Purity:	>95% by SDS PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl, pH 7.5 containing 2 mM EDTA and 20% Glycerol
Preparation:	Liquid purified protein
Protein Description:	Recombinant Human PCNA, was expressed in <i>E.coli</i> and purified by conventional chromatography techniques.
Note:	<b>NCBI Accession No.:</b> NP_002583
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<a href="#">NP_002583</a>
Locus ID:	5111
UniProt ID:	<a href="#">P12004</a>
Cytogenetics:	20p12.3
Synonyms:	ATLD2



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**Summary:**

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]

**Protein Families:**

Druggable Genome, Stem cell - Pluripotency

**Protein Pathways:**

Base excision repair, Cell cycle, DNA replication, Mismatch repair, Nucleotide excision repair

**Product images:**