

## Product datasheet for **TP760481**

### PCNA (NM\_182649) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human proliferating cell nuclear antigen (PCNA), transcript variant 2, full length, with N-terminal HIS tag, expressed in E.Coli, 50ug
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	A DNA sequence encoding human full-length PCNA
Tag:	N-His
Predicted MW:	28.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, pH 8.0, 150 mM NaCl, 1% sarkosyl, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_872590</a>
Locus ID:	5111
UniProt ID:	<a href="#">P12004</a>
RefSeq Size:	1319
Cytogenetics:	20p12.3
RefSeq ORF:	783
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:**