

Product datasheet for **MC200713**

Pcna (NM_011045) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pcna (NM_011045) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pcna
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC005778 sequence for NM_011045 GCGCAGAGGGTTGGTAGTTGTCGCTGTAGGCCCTTCGCTGCCGCTTCTGCATCGTGAATCGGGGGACCTTG GCAGCCAGACCTCGTTCCTCTTAGAGTAGCTCTCATCTAGTCGCCACAACCTCCGCCACCATGTTTGAGGC ACGCCTGATCCAGGGCTCCATCCTGAAGAAGGTGCTGGAGGCTCTCAAAGACCTCATCAATGAGGCCTGC TGGGACGTCAGCTCGGGCGGCGTGAACCTGCAGAGCATGGACTCGTCTCACGTCTCCTTGGTACAGCTTA CTCTGCGCTCCGAAGGCTTCGACACATACCGCTGCGACCGCAACCTAGCCATGGGCGTGAACCTCACCAG CATGTCCAAAATTCTAAAATGTGCTGGTAAATGAAGACATCATTACATTAAGGGCTGAAGATAATGCAGAC ACCTTAGCACTAGTATTCGAAGCACAAATCAAGAGAAAGTTTCAGACTATGAAATGAAGTTAATGGACT TAGATGTGGAGCAACTTGAATCCCAGAACAGGAGTACAGCTGTGTAATAAAGATGCCGTCGGGTGAATT TGCACGTATATGCCGAGACCTTAGCCACATTGGAGATGCTGTTGTGATATCCTGTGCAAAGAATGGGGTG AAGTTTTCTGCAAGTGGAGAGCTTGGCAATGGGAACATTAAGTTGCACAAACAAGTAATGTGGATAAAG AAGAGGAGGCGGTAACCATAGAGATGAATGAGCCTGTTACCTAACGTTTGCTCTGAGGTACCTGAACTT TTTCACAAAAGCCACTCCACTGTCTCCTACAGTAACACTCAGTATGTCTGCAGATGTGCCCTTGTGTGA GAGTATAAAAATTGCTGACATGGGACACTTAAAGTATTATTTGGCTCCCAAGATTGAAGATGAGGAAGCAT CTTAGGCATTGCTAGAAAATTGAGAAAATAAACCTTTGAAGATTGCTCCTGAGATGCCAGCGTGTCTGA GGTCTTTTCTGTCACCAAGTTTGTACCTGAGTATTCTTAAATATTAATAAAAATATGTAGATATCTTCT GTAATAACCTACTTTCTTTCTCTCCATTCTCCATAATTTGCTTAAAGAATAAGCTCCAAAGTAAAAAC TAGTTTTGTTAACATGAATGTTTCTGCTTACAAATACTGGTGATTTTCATCAATGATCTTGACGCTAAA TGCAGTTTTAAGAAATATTGTTCAATTTAAATAAAGTTAACAAATTTGAAAAGTCAAAAAAAAAAAAAAAAA A
Restriction Sites:	RsrII-NotI
ACCN:	NM_011045
Insert Size:	786 bp



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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:	BC005778 , AAH05778
RefSeq Size:	1261 bp
RefSeq ORF:	786 bp
Locus ID:	18538
UniProt ID:	P17918
Cytogenetics:	2 64.15 cM
Gene Summary:	Auxiliary protein of DNA polymerase delta and is involved in the control of eukaryotic DNA replication by increasing the polymerase's processibility during elongation of the leading strand. Induces a robust stimulatory effect on the 3'-5' exonuclease and 3'-phosphodiesterase, but not apurinic-apyrimidinic (AP) endonuclease, APEX2 activities. Has to be loaded onto DNA in order to be able to stimulate APEX2. Plays a key role in DNA damage response (DDR) by being conveniently positioned at the replication fork to coordinate DNA replication with DNA repair and DNA damage tolerance pathways. Acts as a loading platform to recruit DDR proteins that allow completion of DNA replication after DNA damage and promote postreplication repair: Monoubiquitinated PCNA leads to recruitment of translesion (TLS) polymerases, while 'Lys-63'-linked polyubiquitination of PCNA is involved in error-free pathway and employs recombination mechanisms to synthesize across the lesion (By similarity).[UniProtKB/Swiss-Prot Function]