

## Product datasheet for **SC118427**

### PSMC6 (NM\_002806) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PSMC6 (NM_002806) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSMC6
Synonyms:	p42; RPT5; SUG2
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_002806, the custom clone sequence may differ by one or more nucleotides

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ATGGCCATTCCTCCGCGCATCCCCTATGAGAGACGGCTTCTCATCATGGCGGACCCTAGAGATAAGGCGCTTC
AGGACTACCGCAAGAAGTTGCTTGAACACAAGGAGATCGACGGCCGTCTTAAGGAGTTAAGGGAACAATT
AAAAGAATTACCAAGCAGTATGAAAAGTCTGAAAATGATCTGAAGGCCCTACAGAGTGTGGGCAGATC
GTGGGTGAAGTGCTTAACAGTTAACTGAAGAAAAATTCATTGTTAAAGCTACCAATGGACCAAGATATG
TTGTGGTTGTCGTCGACAGCTTGACAAAAGTAACTGAAGCCAGGAACAAGAGTTGCTTTGGATATGAC
TACACTAACTATCATGAGATATTTGCCGAGAGAGGTGGATCCACTGGTTTATAACATGTCTCATGAGGAC
CCTGGGAATGTTTCTTATTCTGAGATTGGAGGGCTATCAGAACAGATCCGGGAATTAAGAGAGGTGATAG
AATTACCTCTTACAAACCCAGAGTTATTTGAGCGTGTAGGAATAATACCTCCAAAAGGCTGTTTGTATA
TGGACCACCAGGTACGGGAAAAACACTCTTGGCAGGAGCCGTTGCTAGCCAGCTGGACTGCAATTTCTTA
AAGTTGTATCTAGTTCTATTGTAGACAAGTACATTGGTGAAGTGTCTGTTTATGATCAGAGAAATGTTTA
ATTATGCTAGAGATCATCAACCATGCATCATTATTTATGGATGAAATAGATGCTATTGGTGGTTCGTCGGTT
TTCTGAGGGTACTTCAGCTGACAGAGAGATTGAGAGAACGTTAATGGAGTTACTGAATCAATGGATGGA
TTTGATACTCTGCATAGAGTTAAAATGATCATGGCTACAACAGACCAGATACACTGGATCTCTGCTTTGC
TGCGTCCAGGAAGATTAGATAGAAAAATACATATTGATTGGCCAAATGAACAAGCAAGATTAGACATACT
GAAAATCCATGCAGGTCCATTACAAGCATGGTGAAGTAAAGTATGAAGCAATTTGAAAGCTTTCCGAT
GGCTTTAATGGAGCAGATCTGAGAAAATGTTTGTACTGAAGCAGGTATGTTTCGCAATTCGTGCTGATCATG
ATTTTGTAGTACAGGAAGACTTCATGAAAGCAGTCAGAAAAGTGGCTGATTCTAAGAAGCTGGAGTCTAA
ATTGGACTACAAACCTGTGTAA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_002806 unedited</p> <pre> NGTTTCGNATATTTGTATACGACTCACTATTAGGGCGGCCGCAATCGGCACGAGGTCATG GCGGACCCCTAGAGATAAGGCGCTTCAGGACTACCGCAACTAGTTGCTTGAACACAAGGAG ATCGACGGCCGCTTAAGGAGTTAAGGGAACAATAAAAGAACTACCAAGCAGTATGAA AAGTCTGAAAAATGATCTGAAGGCCCTACAGAGTGTGGGCAGATCGTGGGTGAAGTGCTT AAACAGTTAACTGAAGAAAAATTCATTGTTAAAGCTACCAATGGACCAAGATATGTTGTG GGTTGTCGTCGACAGCTTGACAAAAGTAAGCTGAAGCCAGGAACAAGAGTTGCTTTGGAT ATGACTACACTAACTATCATGAGATATTTGCCGAGAGAGGTGGATCCACTGGTTTATAAC ATGTCTCATGAGGACCCTGGGAATGTTTCTTATTCTGAGATTGGAGGGCTATCAGAACAG ATCCGGGAATTAAGAGAGGTGATAGAATTACCTCTTACAAACCCAGAGTTATTTACAGCGT GTAGGAATAATACCTCCAAAAGGCTGTTTGTATATGGACCACCAGGTACGGGAAAAACA CTCTTGGCAGGAGCCGTTGCTAGCCAGCTGGACTGCAATTTCTTAAAGGTTGATCTAGT TCTATTGTAGACAAGTACATTGGTGAAAGTGCTCGTTTGATCAGAGAAATGTTTAAATTAT GCTAGAGATCATCAACCATGCATCATTTCTATGGATGAAATAGATGCTATTGGTGTNCGN NCCGTTTCTTGAGGGTACTTCAGCTGACAGAGAGATTCAGAGAAGCTTAATGGAGTTACT GAATCAACTGGATGGATTGATACTCTGCATAGAGACTAAATGATCATGGCTACAAACAG ACCGATACACTCGGATCCTGCTTTGCTGCA </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_002806 unedited</p> <pre> GCGGCCGCAATCTAGTATCGAGTTTTTTTTTTTTTTTTTTTTGTAGGAGAACTGAATCAAAC AGATTTTATTCAACTTTTTAGATGAGGAAAACAAATGATACAAAATAAGTCATAAGAAAT GCTTTCTTATACCACTATCTCAAACCACTTTCAATTTTTACAAAATGCTCACGCAGCAA ATATGAAAAGCTTCAACACTTTCCCTTTGTAAGTTGCTGCAATAAATGCAACTTTAACAA ACATACAAATTTCTTCTGTATCTTAAAAGTTGAATTAATAATTTTATGATGTTACTCAT ATTTTTATTCATATACTTTAATGACATCATTGCCAATACATACATTATTTCTTTAACT TTATTTTACAATAAGCCAACATCTGTCATGCAGCCATCAAAAATCTTACAGTAAATTAC ACAGGTTTGTAGTCCAATTTAGACTCCAGCTTCTTAGAATCAGCCACTTTTCTGACTGCT TTCATGAAGTCTTCTGTACTACAAAATCATGATCAGCACGAATTGCGAACATACCTGCT TCAGTACAAACATTTCTCAGATCTGCTCCATTAAGCCATCCGAAAGCTTCACAATTGCT TCATAATCTATTTCAACATGCTTTGTAATGGGACCTGCATGGATTTTCAGTATGTCTAAT CTTGCTTGTTCAATTTGGCAAATCAATATGGATTTTTCTATCTAATCTTCCCTGGACGCAGC AAAGCAGGATCCAGTGTATCTGTTCTGTTGTAGCCATGATCATTTTAACTCTATGCAGA GTATCAAATCCCTCCATTTGATTAGGAACTCCATCAACGTTCTCTGAATCTCTCTGTCA GCTGAAGTACCCTCAAGAAACCGGCGACCCACCATATCATCTCATTCTCCATAAAAAGA TGCCTGTCCGAAGAACCCTAGCCTAATTAACATCCCTCTGATCAACGAGCACCTTCCCAA TGTCTGGCCTAAN </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002806
<b>Insert Size:</b>	1590 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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:**

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\\_002806.2](#), [NP\\_002797.2](#)

**RefSeq Size:** 1599 bp

**RefSeq ORF:** 1170 bp

**Locus ID:** 5706

**UniProt ID:** [P62333](#)

**Cytogenetics:** 14q22.1

**Domains:** AAA, AAA

**Protein Pathways:** Proteasome

**Gene Summary:** The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes one of the ATPase subunits, a member of the triple-A family of ATPases which have a chaperone-like activity. Pseudogenes have been identified on chromosomes 8 and 12. [provided by RefSeq, Jul 2008]