

Product datasheet for **SC108209**

PSMC3 (NM_002804) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMC3 (NM_002804) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSMC3
Synonyms:	DCIDP; RPT5; TBP1
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002804, the custom clone sequence may differ by one or more nucleotides

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ATGAATCTGCTGCCGAATATTGAGAGTCCAGTGACTCGGCAGGAGAAGATGGCGACCGTGTGGGATGAGG
CCGAGCAAGATGGAATTGGGGAGGAGGTGCTCAAGATGTCCACGGAGGAGATCATCCAGCGCACACGGCT
GCTGGACAGTGAGATCAAGATCATGAAGAGTGAAGTGTGAGAGTCAACCCATGAGCTCCAAGCCATGAAG
GACAAGATAAAAGAGAACAGTGAGAAAAACAAAGTGAACAAGACCCTGCCGTACCTTGTCTCCAACGTCA
TCGAGCTCCTGGATGTTGATCCTAATGACCAAGAGGAGGATGGTGCCAATATTGACCTGGACTCCCAGAG
GAAGGGCAAGTGTGCTGTGATCAAAACCTCTACACGACAGACGTAATTCCTTCTGTGATTGGGTTGGTG
GATGCTGAAAAGCTAAAGCCAGGAGACCTGGTGGGTGTGAACAAAGACTCCTATCTGATCCTGGAGACGC
TGCCACACAGATGACTCGCGGTGAAGGCCATGGAGGTAGACGAGAGGCCACGGAGCAATACAGTGA
CATTGGGGTTTGGACAAGCAGATCCAGGAGCTGGTGGAGGCCATTGTCTTGCCAATGAACCACAAGGAG
AAGTTTGAGAACTTGGGGATCCAACCTCCAAAAGGGGTGCTGATGTATGGGCCCCAGGGACGGGAAGA
CCCTCTGGCCCCGGCCTGTGCCGCACAGACTAAGGCCACCTTCTAAAGCTGGCTGGCCCCAGCTGGT
GCAGATGTTTATTGGAGATGGTCCAAAGCTAGTCCGGGATGCCTTTGCCCTGGCCAAGGAGAAAGCGCCC
TCTATCATCTTATTGATGAGTTGGATGCCATCGGCACCAAGCGCTTTGACAGTGAGAAGGCTGGGGACC
GGGAGGTGCAGAGGACAATGCTGGAGCTTCTGAACCAGCTGGATGGCTTCCAGCCCAACACCCAAGTTAA
GGTAATTGCAGCCACAAACAGGGTGGACATCCTGGACCCCGCCCTCCTCCGCTCGGGCCGCTTGACCGC
AAGATAGAGTTCCCGATGCCAATGAGGAGGCCGGGCCAGAATCATGCAGATCCACTCCCGAAAGATGA
ATGTCAGTCTGACGTGAACTACGAGGAGCTGGCCCGCTGCACAGATGACTTCAATGGGGCCAGTGCAA
GGCTGTGTGTGGAGGCGGGCATGATCGCACTGCGCAGGGGTGCCACGGAGCTCACCCACGAGGACTAC
ATGGAAGGCATCCTGGAGGTGCAGGCCAAGAAGAAAGCCAACCTACAATACTACGCCTAG
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002804 unedited GGGTGTGGGGNNNNNNTTCTCCNNNNNNCNGTTTCANTTTTGTATACGACTCACTA TAGGCGGCCGCGNAATTCGCACGNAGGNANANANANAGANANANAGAGAGAGAGAG AGATGAGAGTCC AGTGACTCGGCAGGAGAAGATGGCGACCGTGTGGGATGAGGCCGAGCAAGATGGAATTGG GGAGGAGGTGCTCAAGATGTCCACGGAGGAGATCATCCAGCGCACACGGCTGCTGGACAG TGAGATCAAGATCATGAAGAGTGAAGTGTGAGAGTCACCCATGAGCTCCAAGCCATGAA GGACAAGATAAAAGAGAACAGTGAGAAAATCAAAGTGAACAAGACCCTGCCGTACCTTGT CTCCAACGTCATCGAGCTCCTGGATGTTGATCCTAATGACCAAGAGGAGGATGGTGCCAA TATTGACCTGGACTCCCAGAGGAAGGGCAAGTGTGCTGTGATCAAAAACCTCTACACGACA GACGTACTTCTTCTGTGATTGGGTTGGTGGATGCTGAAAAGCTAAAGCCAGGAGACCT GGTGGGTGTGAACAAAGACTCCTATCTGATCCTGGAGACGCTGCCACAGAGTATGACTC GCGGGTGAAGCCATGGAGGTAGACGAGAGGCCACGGAGCAATACAGTGACATTGGGGG GTTTGGACCAGCAGATCCAGGAGCTGGTGGAGGCCATTGTCTTGCCAATGAACCACAAGG AGAAGTTTGAGAACTTGGGGATCCACCTCCAAAAGGGGTGCTGATGTATGGGCCCCCC GGGACCGGGGAAGACCCTNCTGGCCCGGCCTGTGCCGCACAGACTAAGGCCACCCTTCC TAAGCTGGCTGGCCCCANCTGGTGCAAATGTTTCATTGAAGAGGTGCCAGCCTATTCCGG GAGCCTTTGCC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002804 unedited GCACCTCCAGGGCCAGNANAGCACTGGGGNAGGGGTCACAGGGATGCCACCCGGGATCTG TTCAGGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTT GCAGGGACCCTAAACCATCTTTTATTGCGCACTCAACCGTGAGACTGGGGCTGGCCTGT GTGCCCTAGGCGTAGTATTGGAGTTGGCTTTCTTCTTGGCCTGCACCTCCAGGATGCCT TCCATGTAGTCCTCGTGGTGAGCTCCGTGGCACCCCTGCGCAGTGCGATCATGCCCGCC TCCACACACACAGCCTTGCACTGGGCCCATTAAGTCACTGTGCAGCGGGCCAGCTCC TCGTAGTTCACGTCAGGACTGACATTCACTTTTGGGAGTGGATCTGCATGNNNTTGGCC CGGGCCTCCTCATTGGGCATCGGGAACCTATCTTGCGGTCAAGGCGGCCCGAGCGGAGG AGGGCGGGGTCCAGGATGTCACCCTGTTTGTGGCTGCAATTACCTTAACCTGGGTGTTG GGCTGGAAGCCATCCAGCTGGTTCAGAAGCTCAGCATTGTCTCTGCACCTCCCGGTCCC CAGCCTTCTCACTGTCAAAGCGCTTGGTGCCGATGGCATCCAACCTCATCAATGAAGATGA TAGAGGGCGCTTCTCCTTGGCCAGGGCAAGGCATCCCGACTAGCTTGGCACCATCTCC TGGNNAACCTGTACCACTGGGGCCACCACCTTAGGGAGGTGGTCTTATTCTGTGGCG CACCAGCCNCGGGCCAAGAAGTCTTCCCCCGTGTGGGGGGCCCATACATCACACCCC TGTGGGAGTTGGGAATCCCAAGATTTCAAACCTTCCCTTTGTGGGGTTCATTGCCAAGAC AATGGGCCTCCACACTTCCGGGATCTTGT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_002804
Insert Size:	1500 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:

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_002804.1](#), [NP_002795.1](#)

RefSeq Size: 1618 bp

RefSeq ORF: 1215 bp

Locus ID: 5702

UniProt ID: [P17980](#)

Cytogenetics: 11p11.2

Domains: AAA, AAA

Protein Families: Druggable Genome, Transcription Factors

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 that have chaperone-like activity. This subunit may compete with PSMC2 for binding to the HIV tat protein to regulate the interaction between the viral protein and the transcription complex. A pseudogene has been identified on chromosome 9. [provided by RefSeq, Jul 2008]