

Product datasheet for **SC110987**

PSMD3 (NM_002809) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMD3 (NM_002809) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSMD3
Synonyms:	P58; RPN3; S3; TSTA2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC110987 sequence for NM_002809 edited (data generated by NextGen Sequencing)

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ATGAAGCAGGAGGGCTCGGCGCGGCGCCGCGGGCGCGGACAAGGCGAAACCGCCGCCCGGC
GGAGGAGAACAAGAACCCACCAGCCGCGCCCGCCAGGATGTGGAGATGAAAGAGGAG
GCAGCGACGGGTGGCGGGTCGACGGGGGAGGCAGACGGCAAGACGGCGGCGGCAGCGCT
GAGCACTCCCAGCGAGAGCTGGACACAGTCACCTTGGAGGACATCAAGGAGCACGTGAAA
CAGCTAGAGAAAGCGGTTTCAGGCAAGGAGCCGAGATTCTGTCTGCGGGCCCTGCGGATG
CTGCCTTCCACATCACGCCGCTCAACCACTATGTTCTGTATAAGGCTGTGCAGGCTTC
TCACTTCAAATAATGCCACTCGAGACTTTTTGCTCCCCTTCTGGAAGAGCCCATGGAC
ACAGAGGCTGATTTACAGTTCCTGCCGACGGGAAAAGCTGCGTCGACACCCCTCCTG
CCTGAAGTGAAGCCTATCTCCAACCTCCTGTTGTCATCTTATGATGAACAGCAAGCGC
TACAAAGAGGCACAGAAGATCTCTGATGATCTGATGCAGAAGATCAGTACTCAGAACCGC
CGGGCCCTAGACCTTGTAGCCGCAAAGTGTACTATTATCACGCCGGGTCTATGAGTTC
CTGGACAAGCTGGATGTGGTGGCAGCTTCTTGCATGCTCGGCTCCGGACAGCTACGCTT
CGGCATGACGCAGACGGGACGGCCACCCTGTTGAACCTCTGCTCGGAATTACCTACAC
TACAGCTTGTACGACCAGGCTGAGAAGCTGGTGTCCAAGTCTGTGTTCCAGAGCAGGCC
AACAAATGAGTGGGCCAGGTACCTCTACTACACAGGGCGAATCAAAGCCATCCAGCTG
GAGTACTCAGAGGCCCGGAGAACGATGACCAACGCCCTTCGAAAGGCCCTCAGCACACA
GCTGTGCGCTTCAAACAGACGGTGCACAAGCTTCTCATCGTGGTGGAGCTGTTGCTGGGG
GAGATCCCTGACCGGCTGCAGTTCGCCAGCCCTCCCTCAAGCGCTCACTCATGCCCTAT
TTCCTTCTGACTCAAGCTGTGAGGACAGGAAACCTAGCCAAGTTCAACCAGGTCCTGGAT
CAGTTTGGGAGAAGTTTCAAGCAGATGGGACCTACACCCTAATTATCCGGCTGCGGCAC
AACGTGATTAAGACAGGTGTACGCATGATCAGCCTCTCCTATTCCCGAATCTCCTGGCT
GACATCGCCCAGAAAGCTGCAGTTGGATAGCCCCGAAGATGCAGAGTTCATTGTTGCCAAG
GCCATCCGGGATGGTGTATTGAGGCCAGCATCAACCACGAGAAGGGCTATGTCCAAATCC
AAGGAGATGATTGACATCTATTCCACCCGAGAGCCCGAGCTAGCCTTCCACCAGCGCATC
TCCTTCTGCCTAGATATCCACAACATGTCTGTCAAGGCCATGAGGTTTCTCCAAATCG
TACAACAAGGACTTGGAGTCTGCAGAGGAACGGCGTGAGCGAGAACAGCAGGACTTGGAG
TTTGCCAAGGAGATGGCAGAAGATGATGATGACAGCTTCCCTTGA
    
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Clone variation with respect to NM_002809.2

5' Read Nucleotide Sequence: >OriGene 5' read for NM_002809 unedited

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GGTACGATTTGTATACGACTCATATAGGGCGGCCGCGATTGCGCACGAGGCCGGCTCGGC
TCCTGGTCCCCGGTGGGAGGGTTAACCGGAGGCCCGGCTCGGTCCCCGGACTAGGCCG
TGACCCCGGGTGCCATGAAGCAGGAGGGCTCGGCGGGCGCCGCGGCGGACAAGGCGA
AACCGCGCCCGGCGGAGGAGAACAAGAACCCACCAGCCCGGCCCCCAGGATGTGG
AGATGAAAGAGGAGGCAGCGACGGGTGGCGGGTCGACGGGGAGGCAGACGGCAAGACGG
CGGCGGCAGCGGCTGAGCACTCCAGCGAGAGCTGGACACAGTCACCTTGAGGACATCA
AGGAGCACGTGAAACAGCTAGAGAAAGCGGTTTCAGGCAAGGAGCCGAGATTCTGTCTGC
GGGCCCTGCGGATGCTGCCTTCCACATCACGCCGCTCAACCACTATGTTCTGTATAAGG
CTGTGCAGGGCTTCTCACTTCAAATAATGCCACTCGAGACTTTTTGCTCCCCTTCTGG
AAGAGCCCATGGACACAGAGGCTGATTTACAGTTCGTCCCCGACGGGAAAAGTGCCTG
CGACCCCTCCTGCCTGAAGTGAAGCCTATCTCCAACCTCCTCGTGGTATCTTATGATG
TGAACAGNCAGCGCTACANAGAGGCACAGAAGATCTCTGATGATCTGATGCAGAAGATCA
GTACTCAGAACCAGCCGCGGCTAGACCTTGTAGCCGAAAGTGTACTATTATCACGCC
CGGGTCTATGAGTTCCTGGGACAGCTGGATGTGGTGGCAGCTTCTTGCATGCTCGGTT
CCGGACAGTTACGCTTCGCATGACCCAAACGGGACGGCCACCTTGTGACCTCTGCTGCG
AATTACTACACTCAACTGGACGACCAGCTGAAN
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_002809 unedited GGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTGTGGAGAACTTTTTATTGTTTAA AAAATCATAATCGAAGCTTCAAAAAACATACAAGCCAAGACATCCCAGTTCTAGTCCCCC ACTCCCTAAAGGAGTACACAGAATACTTCCCTCCTGCTCCACACTGCTGGCCAGG ACCCTGCCCGGGAGGTTGCCTGCCACCCTCTGCCTGCTGTACAGTAAGTCACCGGT GGGGAGGAGCCCTGGGGAGGTGAGGTGGCTCCCAGCACCACCCCTGCACG AATGCAGCATATGAGCTGTGTGGGAAAATGGGGACAGTGCCCTGGGCAGGGGACCC CAAGGGGAAAGTGCCTGTCCCATTCCTTACCCTCCCAGCCCCCAGCTCAAGGG AAGCTGCCATCATCTTCTGCCATCTCCTTGGCAAACCTCAAGTTCTGCTGTTCTCGC TCACCCGTTCTCTGCAGACTCCAAGTCTTGTGTACGATTTGGGAGGAAACCTCATG GCCTTGACAGACATGTTGCGGATATCTAGGCACAATGAGATGCCCTGGTGGAGGTACCT GGGGCTCTCGGCTGGAATAGAAGCCATCATCTCCTTGGATCGACATACCCTTCTCGG TTGATGCTGGGCTCATTGACACATCCCGGAGGCCCTTGCCACCATGAACTGCATCTTCG GGGCTTCCACCTGCAGCTTTCGGGCGAAGTACCCAAGAATCCGAAAGGACACGCT GATCATGGCCACCGCTTATACAGTGGGCCCGAACCCGATAATTATGGCGAAGGCCCA CTTGTGGAACTCTCCACCTAACCAGAACCTGGTGACTGCTAAGTCCCTCCCCG CCAGCTTGATACAGGAATAGCCCCATTATCCCTTGTGGAAGGCGGTGAATTGCAC TGCCAAGAACCCCAAAAACCTCCACCAAAAAAACTTCGCCCTCTTTTAACCCACA CCGCTCTGAGGCCCTTCAAGGCTTN
Restriction Sites:	NotI-NotI
ACCN:	NM_002809
Insert Size:	2150 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:	<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:	<u>NM_002809.2</u> , <u>NP_002800.2</u>
RefSeq Size:	2174 bp
RefSeq ORF:	1605 bp
Locus ID:	5709
UniProt ID:	<u>O43242</u>
Cytogenetics:	17q21.1

Domains: PCI

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. This gene encodes a member of the proteasome subunit S3 family that functions as one of the non-ATPase subunits of the 19S regulator lid. Single nucleotide polymorphisms in this gene are associated with neutrophil count. [provided by RefSeq, Jul 2012]