

## Product datasheet for **SC118387**

### PSMD11 (NM\_002815) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PSMD11 (NM_002815) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSMD11
Synonyms:	p44.5; Rpn6; S9
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002815, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCGGCGGCGGTGGTGGAGTTCAGAGAGCCAGTCTCTACTCAGCACCGACCGGGAGGCTCCA  
TCGACATCCTCCACTCCATCGTGAAGCGTGACATTGAGGAAAACGATGAAGAGGCAGTGAAGTCAAAGA  
GCAGAGCATCCTGGAAGTGGATCTCTCCTGGCAAAGACTGGACAAGCTGCAGAGCTTGGAGGACTCCTG  
AAGTATGTACGACCCTTCTTGAATTCATCAGCAAGGCTAAAGCAGCTCGCCTGGTCCGATCTCTTCTTG  
ATCTGTTTCTTGATATGGAAGCAGCTACAGGGCAGGAGTGCAGCTGTGTTTAGAGTGCATCGAATGGGC  
CAAGTCAGAGAAAAGAACTTTCTTACGCCAAGCTTTGGAGGCAAGACTGGTGTCTTTGTACTTTGATACC  
AAGAGGTACCAGGAAGCATTGCATTTGGTTCTCAGCTGCTGCGGGAGTTGAAAAAGATGGACGACAAAG  
CTCTTTTGGTGGAAAGTACAGCTTTTAGAAAGCAAACATACCATGCCCTGAGCAACTGCCGAAAGCCCG  
AGCTGCCTTAACCTTCTGCTCGAACCACAGCAAATGCCATCTACTGCCCCCTAAATTGCAGGCCACCTTG  
GACATGCAGTCGGGTATTATCCATGCAGCAGAAGAGAAGGACTGGAAAAGTGCCTACTCATACTTCTATG  
AGGCATTTGAGGGTTATGACTCCATCGACAGCCCCAAGGCCATCACATCTCTGAAGTACATGTTGCTGTG  
CAAAATCATGCTCAACACCCCAAGATGTCCAGGCTTTGGTGGAGCGGAAAGCTTGCACTTCGGTATGCA  
GGGAGGCAGACAGAAGCATTAAAATGCGTGGCTCAGGCTAGCAAGAACAGATCACTGGCAGATTTTGAAA  
AGGCTCTGACAGATTACCGGGCAGAGCTCCGGGATGACCAATCATCAGCACACACTTGGCCAAGTTGTA  
TGATAACTTACTAGAACAGAATCTGATCCGAGTCATTGAGCCTTTTCCAGAGTACAGATTGAACACATA  
TCTAGTCTCATCAAACCTCTCAAGGCCGACGTGGAAGGAAATTATCACAGATGATTCTTGACAAGAAAT  
TTCATGGGATTTTGGACCAGGGGAGGGTGCCTGATTATTTTCGATGAACCCCCAGTAGATAAACTTA  
CGAAGCTGCTCTGGAACAATTCAGAACATGAGCAAAGTAGTGGATTCCCTCTACAACAAAGCCAAGAAA  
CTGACATAG
```



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_002815 unedited            ATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGGCGGTAAGATGGCGGCGGG            GCGGTGGTGGAGTTCCAGAGAGCCAGTCTCTACTCAGCACCGACGGGAGGCCTCCATC            GACATCCTCCACTCCATCGTGAAGCGTGACATTGAGAAAACGATGAAGAGGCAGTGAA            GTCAAAGAGCAGAGCATCCTGGAAGTGGGATCTCTCTGGCAAAGACTGGACAAGCTGCA            GAGCTTGGAGGACTCCTGAAGTATGTACGACCCTTCTTGAATTCATCAGCAAGGCTAAA            GCAGCTCGCCTGGTCCGATCTCTTCTTGATCTGTTTCTTGATATGGAAGCAGCTACAGGG            CAGGAGGTGAGCTGTGTTTAGAGTGCATCGAATGGGCCAAGTCAGAGAAAAGAATTTTC            TTACGCCAAGCTTTGGAGGCAAGACTGGTGTCTTTGACTTTGATACCAAGAGGTACCAG            GAAGCATTGCATTTGGGTTCTCAGCTGCTGCGGGAGTTGAAAAAGATGGACGACAAAAGCT            CTTTTGGTGAAGTACAGCTTTTAGAAGCAANCATACCATGCCCTGAGCAACCTGCCGAA            AGCCCCGAGCTGCCTTAACTTCTGCTCGAACCACAGCAAATGCCATCTACTGCCCCCTAT            ATTGCAGGCCACCTTGGACATGCAGTCGGGTATTATCCATGCAGCAAAGAGAAGGACTGG            AAAACTGCGTACTCATACTTCTATGAGGCATTTNGAGGGGTGATGACTCCATCGACAGCC            CCAAGGCATCACATCTCTGAGTACATGGTTGCTGTGCAAATCATGCCTCACACCCNACAN            ATGTCCAGCCTTTTGGTGAAGCGGAAGCTGCACNTTCGATGCAGGNNAGCCGACAGAGC            ATAAAATGCGTNNGCTCAGCTNCAGAACAGATCCTGGCAATTTGGAAAGCTCTGACGATA            CCGGCAAGTTCGGGGAGACCATATANAACACTGGGCGN</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_002815 unedited            GGCCGCAATCTAAAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAGCAATTTCCCACT            CCCAAGTTGGGCCAGTAAAGATTACATGAAAAGTGGCACACCTATTGGCTGGAATACAGA            TGCACCAATGAGGATTTAAAACTTTCCGAGCGAAAAGTAGAACAAAAAGAAAAAGAA            TCTCTAGCATTTTCCCCAAGTTTCACTCTCCGCCACACACTCTCAAAGGACCG            CTACAGATCCAACCTATGTGAGTTTCTGGCTTTGTTGTAGAGGGAATCCAACACTTTG            CTCATGTTCTGAATTGTTCCAGAGCAGCTTCGTAAGTTTATCTACTGGGGTTTCATCG            AAAATAATCAGGACACCTCCCCCTGGTCCAAAATCCCATGAAATTTCTTGTCAAGAATC            ATCTGTGATAATTTCTTTCCAGTCCGGCTTGGAGAGTTGATGAGACTAAATATGTGT            TCAATCTGACTCTGGAAAAAGGCTCAATGACTCGGATCAGATTCTGTTCTAGTAAGTTA            TCATACAACTTGGCCAAGTGTGTGCTGATGATTGGTTCATCCCGAGCTCTGCCCGGTAA            TCTGTGAGAGCCTTTTCAAATCTGCCAGTGTGTTTCTGCTAGCCTGAGCCACGCAT            TTTAATGCTTCTGTGCTCCCTCCCTGCATCCCGAAGTGAAGCTTCCCGCTCACCAAAGCC            TGGACATCTTCTGGGGTGTGAGCATGATTTTGCACAGCACCATGTAATCAAAGATGTG            ATGGCCTTGGGGCTGTCNATGAGTCATACCCTCAATGCTCATAGAGTTGAGTCGCAGTTT            CCAGTCTTTTTCTGTGATGGAATACCCGCTGCTGTCCAGTGGCTGCATTAGGGGCANA            AATGCATTGCTGGGTGAGCAAAATAGCACTCGCTTCCAGTGTAGGCTGTATTTT</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002815
<b>Insert Size:</b>	1540 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\\_002815.2](#), [NP\\_002806.2](#)

**RefSeq Size:** 1598 bp

**RefSeq ORF:** 1269 bp

**Locus ID:** 5717

**UniProt ID:** [O00231](#)

**Cytogenetics:** 17q11.2

**Domains:** PCI

**Protein Families:** Stem cell - Pluripotency

**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 S9 family that functions as a non-ATPase subunit of the 19S regulator and is phosphorylated by AMP-activated protein kinase. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Jul 2012]

**Transcript Variant:** This variant (2) differs in the 3' UTR, compared to variant 1. Variants 1 and 2 encode the same protein. **Sequence Note:** This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.