

## Product datasheet for **SC101418**

### PSMD5 (AK001065) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PSMD5 (AK001065) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSMD5
Synonyms:	S5B
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >NCBI ORF sequence for AK001065, the custom clone sequence may differ by one or more nucleotides

```

AAAACTGATGAAGGAAATTGAAGAAGACACAATAAATGGAAAGGTATCCTATGTTTCATGGATTGGAAG
GATTAATATTATTAATGTTTCATGCTGCCAAAGCACTATATAGATTCAGTGCATTCCCTCCAAAATTT
TTAAATTAATGACATTTTTACGAAAGCAGAAAAATAATTTTTAAATATACATATTTCCAGAATACATT
GTTCAACAATAAGATATATGATTTTTGTGAGTTAAAAGTTAATTTTTAAAAAGATACCTATAGCCTC
TTATTGAGGTGGAATCTGTTGCTCTGGAGCTACGTACTGTTGACTTTGGTTTTCTGAAACATCAGTGC
TATTTAGAACATTAGGATATTTTTCTTTTTGAATATCAACAAAAACATAAATAAAAACTAGTAATGAC
ATTTACAGTATGTTTCACAGATTAATCACATCTCTGAGTGGGAGTCTTTATCTGTTGTAGGATCTACTCT
TGCCATTCTATTCTGGGTTTTGGTTGATTAGTCTTTCTGAACACTTCCAGAAATGGAGATGTATGCCCT
GCCTTAGTAGCCTAGCTATTTTTATTAATGAACATATCCATTTAAAAATTTCTCTGGAATGAGTCT
AAACTTGCCTTCTGTAATTTGTATCCACTGGTCTTTTTCTTTGTTCTCCCTCTTGCATATGCCAGTAC
TTCAATAGCTGGTCCCAGCTCCATTGACGCCCTCTCTCAGGATCACACATCACAGGTCTTCAGAATCTC
CTAATGGTCTCTCTGATCTCCAGGCAACACACTACTCTAACCTTTCTATGCTTTTTCTGGCCTGCAGTTCA
TTTCTGTTCTGTGAAGTCATAGAGCCCGCAATTCATGCTGTCTTGTCCCTATTAATAATATTTTTTG
TAAATCTCTTTAGGATTCGTGAAGTTTTTTGGAAACCTGGCTGTCATGGATAGTCCCAACAGATCTGTG
AGCGTTATCCTATCTTTGTGGAAAAAGTCTTTGAAATGATAGAAAGTCAGGACCCCACTATGATTGGTGT
AGCTGTAGACACAGTTGGAATCTTGGGATCCAATGTTGAAGGAAAAACAGGTTTTACAGAAAAACAGTTGG
TATGACTTGGCCCTGTTCCAGGGATCTTAATCTTTGACAGGGTTCAATATGTAAGTTCATTTGCTGGT
GGGTTAACTACATTGTAGAACTATTTTATGGTGGCAGTCTTGTAAACCATGACCTGTACTCATGTCT
GAAAACTAATAATTATTACGGAAAACCTTTTTTTTTTTTTTTTTTTGACTTTTCACTGGTTTAGGTTTTCAT
TGGTTTTAGGTTTTCTACCAATCGATTTCAACCAACATTGTTTCCTGTTTCCCTCTATGATGTCTTCTTT
GACTAGATTTTCATGGTACAAAGACCACGGGCTAGAGTCAGAAAGTCTGGATTTCATGTCCTTGGGTTTTC
TATTCTTTTTTTTTTTTTTTTTTAAGAGATTGAGAGTGTCTCTGTTACCCAGGCTGGCCCCGAACTC
CCGGGCTCAAGCAATCCTCCTGCCTCATCTCTGATTGGCTGGGTCTACAGGTCCACACCATTGTATCC
AGCCCTGACTTTGCTTTTTGAATTCATTTACTCACTTCACTTTTCTAGGCCTCATTCTTCTATTATA
AAAATGGCATAACAACCTGCTTCTCAGGGTTGTTGTGAATATTTATGAAATTTTGGAAAGGAAAAATAAAA
GTTTGTATAAGATTTTCATGTTAAGAGATACTTTTGGCATGTTAAGAGATACAATGGTTCATGCCTGTAA
TCCAGCACTTTGGGAGGCTAAGGTGGTGGTGGCTGAGCTCAGGAGTCAAGACCAGGCTGGGCAACA
TGGCAAAATCCTATCTCTACTCAAGAATACAAAATTAACCAGGCATGGTACTGCACAACCTGTAGTCCCA
GCTACTTGAGAAGCTGAGGAAGGAGAATCTTTGAACCTGGCAGGTGGAGGTTGCAGTGCAGTGCAGTCA
TGCCACTACACTCCAGCCTGGGTGACAGAGTGAATTTCTATCTCAAAAAAAAAAAAAAAAAAGAGGCCAG
GTATGGTGGCTCATGCCTGTAATCCCAGCATTTTGGGAGGCCAAAGCAGGTGGATCAGTTCAGGTGAGGA
GCTCGAGACCAGCCTGGCCAACATGGTGAACCCCTGTCTCTACTAAAAGTACAAAATCAGCCAAGCGTG
GTGGTGCATGCCTGCAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATGGCATGAACACAGGAGGTAA
AGGTTGCAGTGCAGCCGAGATCACACCACTGCCTCCAGCCTGGGCGACAGTGCAGACTCTGT
    
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for AK001065 unedited  
 GTCAGAAATTGTATACGACTCACTATAGGCGGCCGCAATTCGCACGAGGGTAGCCTAGC  
 TTATTTTATTAATGAACATATCCATTTAAAAATTTCTTCTGGTAAATGAGTCTAACTTG  
 CCTTCCTGTAATTTGTATCCACTGGTCCTTTTTCTTTGTTCTCCCTCTTGCATATGCCAG  
 TACTTCAATAGCTGGTCCCAGCTCCATTGACGCCCTCTCTCAGGATCACACATCACAGGT  
 CCTTCAGAATCTCCTAATGGTCTCTCTGATCTCCAGGCAACACACTACTCTAACCTTTCT  
 ATGCTTTTCTGGCCTGCAGTTCATTTCTGTTCTGTGAAGTCATAGAGCCCGCAATTCAT  
 GCTGTCTTGTTCCTATTAAAAATATATTTTGTAAATCTCTTTAGGATTCGTGAAGTTT  
 TTTGAAAACCTGGCTGTATGGATAGTCTCAACAGATCTGTGAGCGTTATCCTATCTTT  
 GTGAAAAAAGTCTTTGAAATGATAGAAAGTCAGGACCCCACTATGATTGGTGTAGCTGTA  
 GACACAGTTGGAATCTTGGGATCCAATGTTGAAGGAAAACAGGTTTTACAGAAAACAGGT  
 TGGTATGACTTGGCCCTGTTTCCAGGATATCTTCATCTTTGACAGGGGTTCAATATGTAAG  
 TTCATTTGCTGGTGGGTTAACTACATTGTAGAACTATTTTATGGGTGGCAGTCTTGTTA  
 ACCATGACCTTGTACTCATGTCTGAAAATCTAATAATTATTACGAAAAACCTTTTTTTTT  
 TTTTTTTGACTTTTCACTGGTTTAGGTTNTCATTGGTTTANGTTTCTACCAATCGATTT  
 CAACCAACATTGTTTCCCTGTTTCCCCTCTATGATGTCTCTTTNGACTAGATTCATGGN  
 ACAAAGACACNGNCTANAGTCAGAAAAGTCTGGATTCATGTCCTC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for AK001065 unedited  
 NAAAAACTGTGNACCGCGCCGCTATCTANATCGAGTTTTTTTTTTTTTTTTTTTACA  
 GAGTCTCGCACTGTCGCCAGGCTGAAGTGCAGTGGTGTGATCTCGGCTCACTGCAACCT  
 TTACCTCTGTGTTTCATGCCATTCTCCTGCCTCAGCCTCCGAGTAGCTGGGACTGCAGG  
 CATGCACCACCACGCTTGGCTGATTTTTGACTTTTTTTTTTTTACAGGGTTTACCATGT  
 TGGCCAGGCTGGTCTCGAGCTCCTGACCTCAAGTATCCACCTGCTTTGGCCTCCAAAA  
 TGCTGGGATTACAGGCATGAGCCACCATACCTGGCCTCTTTTTTTTTTTTTTTTTTTGA  
 GAAAAATTTCACTCTGTACCCAAGCTGGAGTGAATGGCATGATCTCAGCTCACTGCA  
 ACCTCCACCTGCCAGGTTCAAGAAATTTCCCTCCTCAGCCTCTCAAGTAGCTGGGACTA  
 CAGTTGTGCAATACCATGCCCTGGTAAATTTTTGTATTCTTGTAGTAGAGATAGGATTTTGC  
 CATGTTGCCAGCCTGGTCTTGAACCTGAGCTCAGGCAACCCACCTTAGCCTCC  
 CAAAATGCTGGATTACAGGCATGAACCATGTATCTCTTAAAAGCCCAAAGTATCTCTTA  
 AACATGAAAACCTTAAAAAAATTTTTTTTTCTTTTCCAATTTTATAATATTTAACAAA  
 AACCTGAAAACCTTTGTATGCCATTTTATAAATTAACAAAAGTAGGCCTCAAAAATTA  
 ATGGGTTAATGAATTTCAAACCAAAATCCGGCTGGAATCATGGGGGGGACCCTTAAAC  
 CCCCCCCTAACAAAGTTAAGCCCGGAGGATTTGTTTAAACCCGGGAATTA

**Restriction Sites:**

NotI-NotI

**ACCN:**

AK001065

**Insert Size:**

2250 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:** [AK001065.1](#)

**RefSeq Size:** 2373 bp

**RefSeq ORF:** 2373 bp

**Locus ID:** 5711

**Cytogenetics:** 9q33.2

**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 non-ATPase subunit of the 19S regulator base that functions as a chaperone protein during 26S proteasome assembly. [provided by RefSeq, Jul 2012]