

Product datasheet for **SC127580**

PSMD4 (NM_153822) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMD4 (NM_153822) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSMD4
Synonyms:	AF, ASF, S5A, AF-1, MCB1, Rpn10, pUB-R5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_153822, the custom clone sequence may differ by one or more nucleotides

```
ATGGTGTGGAAAGCACTATGGTGTGTGGACAACAGTGAGTATATGCGGAATGGAGACTTCTTACCCA  
CCAGGCTGCAGGCCAGCAGGATGCTGTCAACATAGTTTGTCAATCAAAGACCCGAGCAACCCTGAGAA  
CAACGTGGGCCTTATCACACTGGCTAATGACTGTGAAGTGTGACCACACTCACCCAGACACTGGCCGT  
ATCCTGTCCAAGCTACATACTGTCCAACCAAGGGCAAGATCACCTTCTGCACGGGCATCCGCGTGGCCC  
ATCTGGCTCTGAAGCACCGACAAGGCAAGAATCACAAGATGCGCATCATTGCCTTTGTGGGAAGCCCAGT  
GGAGGACAATGAGAAGGATCTGGTGAAGTGGCTAAACGCCTCAAGAAGGAGAAAAGTAAATGTTGACATT  
ATCAATTTTGGGAAGAGGAGGTGAACACAGAAAAGCTGACAGCCTTTGTAACACGTTGAATGGCAAAG  
ATGGAACCGTTCTCATCTGGTGACAGTGCCTCCTGGGCCAGTTTGGCTGATGCTCTCATCAGTTCTCC  
GATTTTGGCTGGTGAAGGTGGTGCATGCTGGGTCTTGGTGCCAGTGACTTTGAATTTGGAGTAGATCCC  
AGTGCTGATCCTGAGCTGGCCTTGGCCCTTCGTGTATCTATGGAAGAGCAGCGGCAGCGGAGGAGG  
AGGCCCGCGGGCAGCTGCAGCTTCTGCTGCTGAGGCCGGGATTGCTACGACTGGGACTGAAGGTGAAAG  
AGGTGGAATCCGAAGTCTGGGACTGCGGGATGCTAA
```



[View online »](#)

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_153822 unedited AATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCTCTCTCTCTCTCTCAC CCGGTCGGGAGGGAGGAAGGTGGCAAGATGGTGTGGAAAGCACTATGGTGTGTGGAC AACAGTGAATATATGCGGAATGGAGACTTCTTACCCACCAGGCTGCAGGCCCAGCAGGAT GCTGTCAACATAGTTTGTATTCAAAGACCCGACCAACCCTGAGAACAACGTGGGCCTT ATCACACTGGCTAATGACTGTGAAGTGTGACCACACTCACCCAGACACTGGCCGTATC CTGTCCAAGCTACATACTGTCCAACCCAAAGGGCAAGATCACCTTCTGCACGGGCATCCGC GTGGCCCATCTGGCTCTGAAGCACCGACAAGGCAAGAATCACAAAGATGCGCATATTGCC TTTGTGGGAAGCCAGTGGAGGACAATGAGAAGGATCTGGTGAAACTGGCTAAACGCCTC AAGAAGGAGAAAGTAAATGTTGACATTATCAATTTTGGGGAAGAGGAGGTGAACACAGAA AAGCTGACAGCCTTTGTAACACGTTGAATGGCAAAGTGAACCCGGTTCTCATCTGGTG ACAGTGCCTCCTGGGCCAGTTTGGCTGATGCTCTCATCAGTTCTCCCGATTTTGCCTGG TGAAGGTGGTGCATGCCTGGTCTTGTGCCAGTGACCTTGAATTTGGAGTAGATCCCA GTGCTGATCCTGAACTGGCCCTTGGCCCTTCTGGTTTCTATGAACACCANCGGCACCGGC AAGAAGAGGAGGCCCGGCTGCCAGTTGACTTTTGTCTGCTGAAGCCCGGACTGCTACCAC TGGGACTGAAGTAAAAAGCACACACAATGCCCTGCTGAAGATGACCATCACCCCAAG ATTTGCGCGCCTGGGCTTCTGACCAAACAAT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_153822 unedited GGCAGCTATACGCAGTTTGTAAATGGTGACAGCAAACACACATNCTAACCCATATATCCGT GTGTCCCATGCGTCCCCTAAGCAGACTGAGCTACCCTTCCCTCCAGTCTCACTTCTTGT CTTCTCCTTCTTGTCTTCTTGGCGTCTTGGTGGCCTGGGAGGCCAGGGAGCCATAC CATTTTCAATGGCTTCATTGTTGGGATCCACACCTGGGAGTCTCTAGGACACTCTGAG GGAGACTCGGGTCTGCATCACGTCGTAATCATCCTCCTCCTTGGCTGGCTCGGATGTG TCCATAGCTGAGCTGGCATCAATGTCTGCTGATTCCGACTGGCCAACTCTGCTCCCTGC AGGGACATCTGCATGGCATAAGCAATCTGCTTCTCCTCAGCCATACTGCTTAGGTCAGGA AGCCCAGTGCGGCCAACTCTTGTGGCTGATGGTCATCTTACAGCAGGGCATCGGCTGAG TCTCTTTACCTTCATTCCCAGTCGATCAATACCGGCCCTCACACCATAAGCTGTACCT GCCCCCGGGCCTACTCCTACTGCCGNTGACGGTGTCTTTTATACATACACGAATGGCC AACGCCAGCTCAGGATCAGCACTGAGTATCTACTCCAAATTCAAAGTCACTGGCACCAAG ACCCACCATGGCCACCACCTTACCACGCGAATTCGGAGAATGATGATAGCATCAACCA GCACGGGCCACGAGGTACTTTACAGATGAGATCCGGGTCCCCTTGCCTTTAACCTT TTACCAAGGCTCTCAGCTTCTCCTGGTTAACCTCCCTTTCCCAATGGGAAAGGCAACCT CACTATCCCTCTTACGCGTATACCGTCTGACACCTGTCCATGTCCCCTCGGCTCCC CCATGCCCCGAGACCTCCTGGCAGTTGCCTTGGCCCTCCACCCAGGGCCCTCGATCCGTG CTAAG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_153822
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_153822.1](#), [NP_722544.1](#)

RefSeq Size: 1527 bp

RefSeq ORF: 1527 bp

Locus ID: 5710

Cytogenetics: 1q21.3

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 non-ATPase subunits of the 19S regulator lid. Pseudogenes have been identified on chromosomes 10 and 21. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) includes an alternate segment, compared to variant 1, that causes a frameshift. The resulting protein (isoform 2) has a distinct C-terminus compared to isoform 1.