

Product datasheet for **SC118382**

PSMD7 (NM_002811) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMD7 (NM_002811) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSMD7
Synonyms:	MOV34; P40; Rpn8; S12
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118382 sequence for NM_002811 edited (data generated by NextGen Sequencing)

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ATGCCGGAGCTGGCAGTGCAGAAGTGGTGGTCCACCCCTGGTCTGCTCAGTGTGGT  
GATCATTTC AACCGAATCGGCAAGGTTGAAACCGAAGCGTGTGTTGGTGTGCTTTTG  
GGTTCATGGCAAAGAAAGTACTTGATGTATCGAACAGTTTTGCAGTTCTTTTTGATGAA  
GATGACAAAGACGATTCTGTATGGTTTTAGACCATGATTATTTGAAAACATGTATGGA  
ATGTTTAAAGAAAGTCAATGCCAGGGAAAGAATAGTTGGCTGGTACCACACAGGCCCTAAA  
CTACACAAGAATGACATTGCCATCAACGAACTCATGAAAAGATACTGTCCTAATCCGTA  
TTGGTCATCATTGATGTGAAGCCGAAGGACCTAGGGCTGCCTACAGAAGCGTACATTTCA  
GTGGAAGAAGTCCATGATGATGGAACCTCAACCTCGAAAAACATTTGAACACGTGACCAGT  
GAAATTGGAGCAGAGGAAGCTGAGGAAGTTGGAGTTGAACACTTGTACGAGATATCAAA  
GACACGACGGTGGGCACTCTGTCCAGCGGATCACAACCGGTCATGTTTGAAGGGA  
CTGAACTCCAAGCTTCTGGATATCAGGAGCTACCTGAAAAAGTCGCCACAGGCAAGCTG  
CCCATCAACCACCAGATCATCTACCAGCTGCAGGACGTCTTCAACCTGCTGCCAGATGTC  
AGCCTGCAGGAGTTCGTCAAGGCCTTTTACCTGAAGACCAATGACCAGATGGTGGTAGTG  
TACTTGGCCTCGCTGATCCGTTCCGTGGTCGCCCTGCACAACCTCATCAACAACAAGATT  
GCCAACCGGATGCAGAGAAGAAAGAAGGGCAGGAGAAAGAAGAGAGCAAAAAGGATAGG  
AAAGAGGACAAGGAGAAAGATAAAGATAAGGAAAAGAGTGATGTAAGAAAAGAGGAGAAA  
AAGGAGAAAAAGTAA
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Clone variation with respect to NM_002811.4



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_002811 unedited TCGGATTTTGTAAATACGACTTACTATTAGGGCGGCCGCGAATTCGCACCAGGGTGACCGC TACTGCTGCCGGTGTTCGCGTGTGGCAGGGAGCCAGGCCCTGGCGAGCGGGGTGTGTCGCG ATGCCGGAGCTGGCAGTGCAGAAGGTGGTGGTCCACCCCTGGTCTGCTCAGTGTGGTG GATCATTTC AACCGAATCGGCAAGGTTGGAAACCAGAAGCGTGTGTTGGTGTGCTTTTG GGTCAATGGCAAAGAAAGTACTTGATGTATCGAACAGTTTTGCAGTTCCTTTTGATGAA GATGACAAAGACGATTCTGTATGGTTTTAGACCATGATTATTTGGAAAACATGTATGGA ATGTTTAAGAAAAGTCAATGCCAGGGAAAGAATAGTTGGCTGGTACCACACAGGCCCTAAA CTACACAAGAATGACATTGCCATCAACGAACTCATGAAAAGATACTGTCCTAATTCGGTA TTGGTCATCATTGATGTGAAGCCGAAGGACCTAGGGCTGCCTACAGAAGCGTACATTTCA GTGGAAGAAGTCCATGATGATGGAACCTCAACCTCGAAAACATTTGAACACGTGACCAGT GAAATTGGAGCAGAGGAAGCTGAGGAAGTTGGAGTTGAACACTTGTACGAGATATCAA GACACGACGGTGGCACTCTGTCCAGCGGATCACAACCAGGTCATGGTTTGAAGGGA CTGAACTNCAGCTTCTGGATATCANGAGCTACCNTGNAAGTGCACACAGGCAAGCTGC CCATCAACCACCAGATCATCTACCAGCTGCAGGACGTCNTCAACCTGCTGCCAGATGTCA GCCTGCNAGAGTTCGTC AAGGCCCTTACTGNAGACCATGACCAGTGGGGGTAGTGTAC CTGGCCTCGCTGATCCGTTCTGGTTCGCCTGNCCAACATAACAACAGATGCCAACCGG ATGCAAA
Restriction Sites:	NotI-NotI
ACCN:	NM_002811
Insert Size:	1700 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:	NM_002811.3 , NP_002802.2
RefSeq Size:	1678 bp
RefSeq ORF:	975 bp
Locus ID:	5713
UniProt ID:	P51665
Cytogenetics:	16q23.1
Domains:	JAB_MPN

Protein Families: Druggable Genome, Protease

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 a non-ATPase subunit of the 19S regulator. A pseudogene has been identified on chromosome 17. [provided by RefSeq, Jul 2008]