

Product datasheet for **SC128196**

PSMD8 (NM_002812) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMD8 (NM_002812) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSMD8
Synonyms:	HEL-S-91n; HIP6; HYPF; Nin1p; p31; Rpn12; S14
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002812, the custom clone sequence may differ by one or more nucleotides

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ATGTTTCATTAAGGGCAGGGCTCCGAGGGCGCCACCTCGAGAGCGACGGCGGGCTACCCGGGGCGGGCTGA  
GGCAGGTTGTAGCCCCGCCCGGGCCTTGGGCTCCACCTCTCGGCCCACTTCGCGGGCAAGCGTTTG  
TAGGCGGCCTGCGTAAATCAGGCGGTCTGCTTGCCGCATCACGCAAGATGGCGGCCGCGGCGTGAAC  
GGGGCGGCAGGCTTCTCGAGCTCCGGGCCCGCGCAACCTCGGGCGCTGTTCTGCAGGCCGCGACCGGCA  
TGTACGAGCAACTCAAGGGCGAGTGAACCGTAAAAGCCCAATCTTAGCAAGTGCGGGGAAGAGCTGGG  
TCGACTCAAGCTAGTTCTTCTGGAGCTCAACTTCTTGCCAACCACAGGGACCAAGCTGACCAAACAGCAG  
CTAATTCTGGCCCGTGACATACTGGAGATCGGGGCCCAATGGAGCATCCTACGCAAGGACATCCCCTCCT  
TCGAGCGCTACATGGCCAGCTCAAATGCTACTACTTTGATTACAAGGAGCAGCTCCCCGAGTCAGCCTA  
TATGCACCAGCTCTTGGGCCTAACCTCCTCTTCTGCTGTCCCAGAACCGGGTGGCTGAGTTCCACACG  
GAGTTGGAGCGGCTGCCTGCCAAGGACATACAGACCAATGTCTACATCAAGCACCCAGTGTCCCTGGAGC  
AATACCTGATGGAGGGCAGCTACAACAAAGTGTTCCTGGCCAAGGGTAACATCCCCGCCGAGAGCTACAC  
CTTCTTATTGACATCCTGCTCGACTATCAGGGATGAGATCGCTGGGTGCATCGAGAAGGCCACGAG  
AAAATCCTTTTCACTGAGGCCACCGGATCCTCTTCTTCAACACCCAAAAAGATGACAGACTACGCCA  
AGAAGCGAGGGTGGTCTTGGGCCCAACAACACTACTACAGTTTGGCAGCCAGCAGCAGAAGCCGGAAGA  
CACCACATTCCCTCCACAGAAGTGGCCAAACAGGTCATCGAGTATGCCCGGCAGCTGGAGATGATCGTC  
TGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002812 unedited ATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCGGCAACCTCGGGCGCTGTT CTGCAGGCCGCGACCCGGCATGTACGAGCAACTCAAGGGCGAGTGGAAACCGTAAAAGCCCC AATCTTAGCAAGTGGGGGAAGAGCTGGGTCGACTCAAGCTAGTTCTTCTGGAGCTCAAC TTCTTGCCAACCACAGGGACCAAGCTGACCAAACAGCAGCTAATTCTGGCCCGTGACATA CTGGAGATCGGGGCCAATGGAGCATCCTACGCAAGGACATCCCCTCCTTCGAGCGCTAC ATGGCCAGCTCAAATGCTACTACTTTGATTACAAGGAGCAGCTCCCCGAGTCAGCCTAT ATGCACCAGCTCTGGGCCTCAACCTCCTCCTCCTGCTGTCCCAGAACCAGGTTGGCTGAG TTCACACGAGTGGAGCGGCTGCCTGCCAAGGACATACAGACCAATGTCTACATCAAG CACCCAGTGTCCCTGGAGCAATACCTGATGGAGGGCAGCTACAACAAAGTGTTCCTGGCC AAGGGTAACATCCCCGCCGAGAGCTACACCTTCTTATTGACATCCTGCTCGACTATC AGGGATGAGATCGCTGGGTGCATCGAGAAGGCCTACGAGAAAATCCTTTTCACTGAGGCC ACCCGGNATCCTTCTTCAACACACCCAAAAAGATGACAGACTACGCCAAGAGCGAGG GTGGTCTCGNGCCCAACACTACTACAGTTTGGCCAGCCAGCAGCAGAAGCCGGAAGA CACCACCATTCCCTTACAGAAGTGGCCAAACAGGTCATCGAGTATGCCCGCAGCTGGA GATGATCGTCTGAGCCCCCGGCACTGGTGGGGCANGCAGGTTATTAACAGTACACT GCAGTTTCGCCATAAGGGNCTGACATCAAAAAAAAAAAC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002812 unedited GGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGAATGTCAGTCCACCTTTATTG GGCGAAACCTGCAGTGAAGTGTAAAAATAACTCGTCCCTGCCACCCAGTGCCCG GGGGGCTCAGACGATCATCTCCAGCTGCCGGGCATACTCGATGACCTGTTTGGCCAGTTC TGTGGAGGGAATGGTGGTGTCTCCGGCTTCTGCTGCTGGCTGGCAAACTGTAGTAGTT GTTGGGGCCAGGACCCACCCTCGTCTTGGCGTAGTCTGTCATCTTTTGGGTGTGTT GAAGAAGAGGATCCGGTGGCCTCAGTGAAGGATTTTCTCGTAGGCCTTCTCGATGCA CCCAGCGATCTCATCCCTGATAGTGTGAGCAGGATGTCAATGAAGAAGGTGTAGCTCTC GGCGGGGATGTTACCTTGGCCAGGAACACTTTGTTGTAGCTGCCCTCCATCAGGTATTG CTCCAGGGACACTGGGTGCTTGTAGTACATTGGTCTGTATGTCCTTGGCAGGCAGCCG CTCCAACCTCCGTGGAACTCAGCCACCCGTTCTGGGACAGCANGAAAGAGGAGGTGAG GCCCNAGAGCTGTGCATATANGCTGACTCGGNGAGCTGCTCCTGTATCAAAGTAGTAG CATTGTAGCTGGCCATGTANCGCTCGAAGGAGGNGATGTCCTTGGTANGATGCTCCAT TNGGCCCGATCTNCAGTATGTCACGGCCAAATTAAGTGTNGTTGGTACAGTTGGTCC CTGTGGTTGCCAGAAAGTGGGCTCCANAAGAACTAGCTTGGTGCAGCAGCTCTCCCGG ACTTGCTAAGATGGGGCTTACNGNTCCACTCCCCTGAGTTGCTGTCATGCCNCCCGGC TGAAAACACNCCAGTTGCCCGCTCGGCCGAATCCGGCCGCTATAAGATCGATTACAAA TTTGACGTTACTACGACTCTGCTATTAAGTCCACGACACCCTACGGCATTNGGTACGGG NCGGGTATACGATTNTGAAAGCCGTTGATTGTGCCAN</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_002812
Insert Size:	1000 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_002812.3](#), [NP_002803.1](#)

RefSeq Size: 1556 bp

RefSeq ORF: 774 bp

Locus ID: 5714

UniProt ID: [P48556](#)

Cytogenetics: 19q13.2

Domains: Nin1_C

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 1. [provided by RefSeq, Jul 2008]