

Product datasheet for SC111676

PSMB9 (NM_002800) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMB9 (NM_002800) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSMB9
Synonyms:	beta1i; LMP2; PRAAS3; PSMB6i; RING12
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111676 sequence for NM_002800 edited (data generated by NextGen Sequencing) ATGCTGCGGGCGGGAGCACCAACCGGGGACTTACCCCGGGCGGGAGAAGTCCACACCGGG ACCACCATCATGGCAGTGGAGTTTGACGGGGCGTTGTGATGGGTCTGATTCCCGAGTG TCTGCAGCGAGGCGGTGGTGAACCGAGTGTGGACAAGCTGTCCCGCTGCACGAGCAC ATCTACTGTGCACTCTCTGGTTCAGCTGCTGATGCCCAAGCCGTGGCCGACATGGCCGCC TACCAGCTGGAGCTCCATGGGATAGAAGTGGAGGAACCTCCACTTGTGGTGGCTGCTGCA AATGTGGTGAGAAATATCAGCTATAAATATCGAGAGGACTTGTCTGCACATCTCATGGTA GCTGGCTGGGACCAACGTGAAGGAGTCAAGTATATGGAACCCTGGGAGGAATGCTGACT CGACAGCCTTTTGCCATTGGTGGCTCCGGCAGCACCTTTATCTATGGTTATGTGGATGCA GCATATAAGCCAGGCATGTCTCCGAGGAGTGCAGGCGCTTACCACAGACGCTATTGCT CTGGCCATGAGCCGGGATGGCTCAAGCGGGGTGTCATCTACCTGGTCACTATTACAGCT GCCGGTGTGGACCATCGAGTCATCTTGGCAATGAACTGCCAAAATTCTATGATGAGTGA
	Clone variation with respect to NM_002800.4 179 g=>a



[View online »](#)

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002800 unedited</p> <pre> NGTTCAGATTTTNGTATACGACTCACTATAGGGCGGCCGCAAATTCGCACGAGGGGAGA GCGGTGCCTTGCAGGGATGCTGCGGGCGGGAGCACCAACCGGGGACTTACCCCGGGCGGG AGAAGTCCACACCGGGACCACCATCATGGCAGTGGAGTTTGACGGGGGCGTTGTGATGGG TTCTGATTCGCGAGTGTCTGCAGGCGAGGCGGTGGTGAACCGAGTGTGTTGACAAGCTGTC CCCGTGCACGAGCACATCTACTGTGACTCTCTGGTTTCACTGCTGATGCCAAAGCCGT GGCCGACATGGCCGCTACCAGCTGGAGCTCCATGGGATAGAAGTGGAGGAACCTCCACT TGTTTTGGCTGCTGCAAATGTGGTGAGAAATATCAGCTATAAATATCGAGAGGACTTGTC TGCACATCTCATGGTAGCTGGCTGGGACCAACGTGAAGGAGGTCAGGTATATGGAACCTT GGGAGGAATGCTGACTCGACAGCCTTTTGCATTGGTGGCTCCGGCAGCACCTTTATCTA TGGTTATGTGGATGCAGCATATAAGCCAGGCATGTCTCCCGAGGAGTGCAGGCGCTTAC CACAGACGCTATTGCTCTGGCCATGAGCCGGGATGGCTCAAGCGGNGGTGTCATCTACCT GGTCACTATTACAGCTGCCGGTGTGGACCATCGAGTCATCTTGGCAATGAAGTCCAAA TTCTATGATGAGTGAACCTTCCCAGACTTCTCTTTCTATTTTGAATANACTCTCTTA GGCCAAAAANNAANNNNNNNNNNNANNANNNNANNATNNAATTAANATTANAAAAAAT TAAATAAATATTTTAAAAAATAAAAAAACCTTCTTTTATATGGCCCGGGTTTTATTT TTTTTAAAAAACCCGGA </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002800 unedited</p> <pre> GAGAGATTTTTACAAATAANAAAGAAATCTGGGNGAGGTTCACTCATAGAAATTTGG CAGTTCATTGCCAAGATGACTCGATGGTCCACACCGGCAGCTGTAATAGTGACCAGGTA GATGACACCCCGCTTGAGCCATCCCGGCTCATGGCCAGAGCAATAGCGTCTGTGGTGAA GCGCCTGCACTCCTCGGGAGACATGCCTGGCTTATATGCTGCATCCACATAACCATAGAT AAAGGTGCTGCCGAGCCACCAATGGCAAAGGCTGTCGAGTCAGCATTCTCCAGGGT TCCATATACCTGACCTCCTTACGTTGGTCCCAGCCAGCTACCATGAGATGTGCAGACAA GTCCTCTCGATATTTATAGCTGATATTTCTACCACATTTGCAGCAGCCAAAACAAGTGG AGGTTCTCCAGTTCTATCCCATGGAGCTCCAGCTGGTAGGCGGCCATGTCCGGCCACGGC TTGGGCATCAGCAGCTGAACCAGAGAGTGCACAGTAGATGTGCTCGTGCAGCGGGGACAG CTTGTCAAACACTCGGTTACCACCGCCTCGCCTGCAGACACTCGGAATCAGAACCAT CACAAACGCCCCGTCAAACTCCACTGCCATGATGGTGGTCCCGGTGTGGACTTCTCCCGC CCGGNGTAAGTCCCGGTTGGTGTCTCCCGCCGACATCCCTGCAAGGCACCGCTCTCC CCTCGTGCCGAATTCGCGGCCGNCTATAGTGAAGTATTACAAAAATCTGACGGGTCA CTAAACGAGCTCTGCTTATATAGACCTNCCACCGTACACGCTACCGNCCATTTGCGTCA ACGGGGCGGGNTATACGANCAATTTGGAAGTCCNGTTGATTNTGGTGCCCAAACAACTN CCATGACGTCATGGGGTGGAGACTTGAAAATCCCGGAGTCAACCGCTATCCGCCATGGT GACTGGCAAACCGATACCC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_002800
Insert Size:	780 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_002800.4](#), [NP_002791.1](#)

RefSeq Size: 1048 bp

RefSeq ORF: 660 bp

Locus ID: 5698

UniProt ID: [P28065](#)

Cytogenetics: 6p21.32

Domains: proteasome

Protein Families: Druggable Genome, Protease

Protein Pathways: Proteasome

Gene Summary: The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure 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. 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 member of the proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. This gene is located in the class II region of the MHC (major histocompatibility complex). Expression of this gene is induced by gamma interferon and this gene product replaces catalytic subunit 1 (proteasome beta 6 subunit) in the immunoproteasome. Proteolytic processing is required to generate a mature subunit. [provided by RefSeq, Mar 2010]

Transcript Variant: This variant (1) encodes the longer isoform (1).