

Product datasheet for **SC306334**

PSMB9 (NM_148954) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: PSMB9 (NM_148954) Human Untagged Clone
Tag: Tag Free
Symbol: PSMB9
Synonyms: beta1i; LMP2; MGC70470; PSMB6j; RING12
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >SC306334 representing NM_148954.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGCGGGCGGGAGAAGTCCACACCGGGACCACCATCATGGCAGTGGAGTTTGACGGGGCGTTGTG
ATGGGTTCTGATCCCGAGTGTCTGCAGGCGAGGCGGTGGTGAACCGAGTGTGGACAAGCTGTCCCG
CTGCACGAGCGCATCTACTGTGCACTCTCTGGTTCAGCTGCTGATGCCAAGCCGTGGCCGACATGGCC
GCCTACCAGCTGGAGCTCCATGGGATAGAAGTGGAGAACCTCCACTGTTTTGGCTGCTGCAAATGTG
GTGAGAAATATCAGCTATAAATATCGAGAGGACTTGTCTGCACATCTCATGGTAGCTGGCTGGGACCAA
CGTGAAGGAGTCAAGTATATGGAACCTGGGAGGAATGCTGACTCGACAGCCTTTTGCATTGGTGGC
TCCGGCAGCACCTTTATCTATGGTTATGTGGATGCAGCATATAAGCCAGGATGTCTCCCGAGGAGTGC
AGGCGCTTACCACAGACGCTATTGCTCTGGCCATGAGCCGGGATGGCTCAAGCGGGGTGTCATCTAC
CTGGTCACTATTACAGCTGCCGGTGTGGACCATCGAGTCATCTTGGGCAATGAAGTCCAAAATTCTAT
GATGAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul
Plasmid Map:
ACCN: NM_148954
Insert Size: 630 bp



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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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_148954.2
RefSeq Size:	1018 bp
RefSeq ORF:	630 bp
Locus ID:	5698
Cytogenetics:	6p21.32
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Proteasome
MW:	22.3 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1. The resulting protein (isoform 2) has a shorter, distinct N-terminus compared to isoform 1.</p>