

Product datasheet for **SC320228**

PSMB8 (NM_004159) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: PSMB8 (NM_004159) Human Untagged Clone
Tag: Tag Free
Symbol: PSMB8
Synonyms: ALDD; D6S216; D6S216E; JMP; LMP7; NKJO; PRAAS1; PSMB5i; RING10
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC (PS100020)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_004159.4
 AGCAACGCTAGGAAGGGCGGGCAGAAAGGCACGCTCTTGTGGGTGACTACAGGTTAGGA
 GACCGTTGAACCTGGAGGGGCCCTAGGATGGACCCCGTGGAAAGATTGAGAGACTGCGCC
 CTCTCCCTGGCGCCGCTTCCCCTACACGCGGGGTATATTCTGTTGCAAGTTGGCCAG
 GACCTGTTTCCAAGACTCTGCCCTCGCACTTCCGTCCCTCCTGGTTTTGTAAAGTGAT
 GCTCATAGGAACCCACCCCGGTGACACTACTCCAGCTCCTGGCTGACTTCTAGTCT
 TCTGGTTGAAGCTGCGCTTTAGATGACACGACCTACCCACCCCTGTTCCAGCGGATG
 CCCGGGCTGGAGCCACAGAATTCTTCCAGTCCCTGGGTGGGACGGAGAAAGAACGT
 TCAGATTGAGATGGCCATGGCACCACCAGCTCGCTTCAAGTCCAGCATGGAGTGAT
 TGCAGCAGTGGATTCTCGGCCTCAGCTGGTCTACATTAGTGCCTACGGGTGAACAA
 GGTGATTGAGATTAACCTTACCTGCTTGGCACCATGTCTGGCTGTGCAGCAGACTGTCA
 GTACTGGGAGCGCTGTGGCCAAGGAATGCAGGCTGTACTATCTGCGAAATGGAGAACG
 TATTTTCAGTGTCCGACGCTCCAAGCTGCTGTCCAACATGATGTGCCAGTACCGGGCAT
 GGGCCTCTCTATGGGCAGTATGATCTGTGGCTGGGATAAGAAGGGTCTGGACTCTACTA
 CGTGGATGAACATGGGACTCGGCTCTCAGGAAATATGTTCTCCACGGGTAGTGGGAACAC
 TTATGCCTACGGGTCATGGACAGTGGCTATCGGCCTAATCTTAGCCCTGAAGAGGCCTA
 TGACCTTGGCCGACGGCTATTGCTTATGCCACTCACAGAGACAGCTATTCTGGAGGCGT
 TGTCAATATGTACCACATGAAGGAAGATGGTTGGGTGAAAGTAGAAAGTACAGATGTCAG
 TGACCTGCTGCACAGTACCGGGAAGCCAATCAATAATGGTGGTGGCAGCTGGGCAG
 GTCTCTCTGGGAGGTCTTGGCCGACTCAGGGACCTAAGCCACGTTAAGTCCAAGGAGAA
 GAAGAGGCTAGCCTGAGCCAAAGAGAGAGTACGGGCTCAGCAGCCAGAGAGGCGCGGTG
 AAGTGCATCTTCTGCGTGTCTCTATTTGAACAAGCATTTCCCCAGGGAAGTTTCTGGG
 TGCCCCACTAAGTAGAATAAAGAAAAACGGTTATAAATAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_004159



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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:	<u>NM_004159.4</u> , <u>NP_004150.1</u>
RefSeq Size:	1602 bp
RefSeq ORF:	819 bp
Locus ID:	5696
UniProt ID:	<u>P28062</u>
Cytogenetics:	6p21.32
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 3 (proteasome beta 5 subunit) in the immunoproteasome. Proteolytic processing is required to generate a mature subunit. Two alternative transcripts encoding two isoforms have been identified; both isoforms are processed to yield the same mature subunit. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) represents the longer transcript but encodes the shorter isoform (E1).