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Product datasheet for SC101220

PSMB8 (NM_148919) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMB8 (NM_148919) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSMB8
Synonyms:	ALDD; D6S216; D6S216E; JMP; LMP7; NKJO; PRAAS1; PSMB5i; RING10
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC101220 sequence for NM_148919 edited (data generated by NextGen Sequencing)

ATGGCGCTACTAGATGTATGCGGAGCCCCCCGAGGGCAGCGGCCGGAATCGGCTCTCCCG
GTTGCGGGAAGCGGGCGTCGCTCGGACCCAGGACACTACAGTTTCTCTATGCGATCTCCA
GAGCTCGCTTTACCCCGGGGAATGCAGCCCACAGAATTCTTCCAGTCCCTGGGTGGGGAC
GGAGAAAGGAACGTTCAGATTGAGATGGCCCATGGCACCACCACGCTCGCCTTCAAGTTC
CAGCATGGAGTGATTGCAGCAGTGGATTCTCGGGCCTCAGCTGGGTCCTACATTAGTGCC
TTACGGGTGAACAAGGTGATTGAGATTAACCCTTACCTGCTTGGCACCATGTCTGGCTGT
GCAGCAGACTGTCAGTACTGGGAGCGCCTGCTGGCCAAGGAATGCAGGCTGTACTATCTG
CGAAATGGAGAACGTATTTCAGTGTCGGCAGCCTCCAAGCTGCTGTCCAACATGATGTGC
CAGTACCGGGGCATGGGCCTCTCTATGGGCAGTATGATCTGTGGCTGGGATAAGAAGGGT
CCTGGACTCTACTACGTGGATGAACATGGGACTCGGCTCTCAGGAAATATGTTCTCCACG
GGTAGTGGGAACACTTATGCCTACGGGGTCATGGACAGTGGCTATCGGCCTAATCTTAGC
CCTGAAGAGGCCTATGACCTTGGCCGCAGGGCTATTGCTTATGCCACTCACAGAGACAGC
TATTCTGGAGGCGTTGTCAATATGTACCACATGAAGGAAGATGGTTGGGTGAAAGTAGAA
AGTACAGATGTCAGTGACCTGCTGCACCAGTACCGGGAAGCCAATCAATAA

Clone variation with respect to NM_148919.3

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_148919 unedited
GTCAGAAATTTGTAATACGACTCACTATAGGGGCGGCCGCGAATTCGCACGAGGCTGGGC
GGTCATGGCGCTACTAGATGTATGCGGAGCCCCCCGAGGGCAGCGGCCGGAATCGGCTCT
CCCGGTTGCGGGAAGCGGGCGTCGCTCGGACCCAGGACACTACAGTTTCTCTATGCGATC
TCCAGAGCTCGCTTTACCCCGGGGAATGCAGCCCACAGAATTCTTCCAGTCCCTGGGTGG
GGACGGAGAAAGGAACGTTCAGATTGAGATGGCCCATGGCACCACCACGCTCGCCTTCAA
GTTCCAGCATGGAGTGATTGCAGCAGTGGATTCTCGGGCCTCAGCTGGGTCCTACATTAG
TGCCTTACGGGTGAACAAGGTGATTGAGATTAACCCTTACCTGCTTGGCACCATGTCTGG
CTGTGCAGCAGACTGTCAGTACTGGGAGCGCCTGCTGGCCAAGGAATGCAGGCTGTACTA
TCTGCGAAATGGAGAACGTATTTCAGTGTCGGCAGCCTCCAAGCTGCTGTCCAACATGAT
GTGCCAGTACCGGGGCATGGGCCTCTCTATGGGCAGTATGATCTGTGGCTGGGATAAGAA
GGGTCCTGGACTCTACTACGTGGATGAACATGGGACTCGGCTCTCAGGAAATATGTTCTC
CACGGGTAGTGGGAACACTTATGCCTACGGGGTCATGGACAGTGGCTATCGGCCTAATCT
TAGCCCTGAAGAGGCCTATGACCTTGGCCGCAGGGCTATTGCTTATGCCACTCACAGAGA
CAGCTATTCTGGGAGGCGTTGTCAATATGTACCACATGAAGGAAAGAATGGTTGGGTTGA
AAAGTANAAAGTTACAGAATGTCAGTTGACCTGCTGCACCAGTACCGGGGAGCCATCATA
TGGGTGGGTGGGTGCAGCTGGGCAGGTCTCTCTGGGGAGGTCTTGGCCGACTCAGGGACC
TAAGCACGTTTAGTCCAAGGAAAAAAAAGCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_148919 unedited
AAGGCTCCTGGCTGTAACTTCAGGGCCAGGAGAGGCACTGGGGAGGGGTCACAGGGATGC
CACCCGGGATCTGTTCAGGAAACAGCTATGACCGCGGCCGCAATCTAGAGTCGAGTTTTT
TTTTTTTTTTTTTTTTTTTATTTATAACCGTTTTTCTTTATTCTACTTAGTGGGGCACCC
AGAAACTTCCCTGGGGGAAATGCTTGTTCAAATAGAGAACACGCAGAAGATGCACTTCAC
CGGCCTCCTCTGGCTGCTGAGCCCGTACTCTCTCTTTGGCTCAGGCTAGGCCTCTTCTTC
TCCTTGGACTTAACGTGGCTTAGGTCCCTGAGTCGGCCAAGACCTCCCAGAGGAGACCTG
CCCAGCTGCCACCACCACCATTATTGATTGGCTTCCCGGTACTGGTGCAGCAGGTCACTG
ACATCTGTACTTTCTACTTTCACCCAACCATCTTCCTTCATGTGGTACATATTGGACAAC
GCCTCCAGAATAGCTGTCTCTGTGAGTGGCATAAGCAATAGCCCTGCGGCCAAGGTCATA
GGCCTCTTCAGGGCTAAGATTAGGCCGATAGCCACTGTCCATGACCCCGTAGGCATAAGT
GTTCCCACTACCCGTGGAGAACATATTTTCTGAGAGCCGAGTCCCATGTTCATCCACGTA
GTAGAGTCCAAGACCCTTTCTTATCCNAGCCACAGATCATACTTGCCATAGAGAAGGCCA
TGCCCCGTACTTGCACAATCATGTGGACAAGACTTGGGGCTTGCGACCTGAATACTTCTC
ATTCGGAAATAGTCACTTGATTCCTGGCAAAGGGTTTCATACTTGAGTGTTGCAACCAAT
GGCAACGGTAAGTATTCATACACTTGTCCGAGAGCTTGTGGCCCTG

Restriction Sites: NotI-NotI

ACCN: NM_148919

Insert Size: 1150 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_148919.3, NP_683720.2
RefSeq Size:	1135 bp
RefSeq ORF:	831 bp
Locus ID:	5696
UniProt ID:	P28062
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 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 (2) differs in the 5' UTR and contains an alternate in-frame exon in the 5' coding region, compared to variant 1. Isoform E2 has a distinct N-terminus, compared to isoform E1.