

## Product datasheet for SC118417

### Proteasome subunit beta type 4 (PSMB4) (NM\_002796) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Proteasome subunit beta type 4 (PSMB4) (NM_002796) Human Untagged Clone
Tag:	Tag Free
Symbol:	Proteasome subunit beta type 4
Synonyms:	HN3; HsN3; PRAAS3; PROS-26; PROS26
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118417 sequence for NM_002796 edited (data generated by NextGen Sequencing)

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ATGGAAGCGTTTTTGGGGTCGCGGTCCGGACTTTGGGCGGGGGTCCGGCCCCAGGACAG
TTTTACCGCATTCCGTCCACTCCCGATTCTTCATGGATCCGGCGTCTGCACTTTACAGA
GGTCCAATCACGCGGACCCAGAACCCCATGGTGACCGGGACCTCAGTCCTCGGCGTTAAG
TTCGAGGGCGGAGTGGTATTGCCGAGACATGCTGGGATCCTACGGCTCCTGGCTCGT
TTCCGCAACATCTCTCGCATTATGCGAGTCAACAACAGTACCATGCTGGGTGCCTCTGGC
GACTACGCTGATTTCCAGTATTTGAAGCAAGTTCTCGCCAGATGGTGATTGATGAGGAG
CTTCTGGGAGATGGACACAGCTATAGTCCTAGAGCTATTCATTCATGGCTGACCAGGGCC
ATGTACAGCCGGCGCTCGAAGATGAACCCTTTGTGGAACACCATGGTCATCGGAGGCTAT
GCTGATGGAGAGAGSTTCTCGGTTATGTGGACATGCTTGGTGTAGCCTATGAAGCCCCT
TCGCTGGCCACTGGTTATGGTGCACTTGGCTCAGCCTCTGCTGCGAGAAGTTCTGGAG
AAGCAGCCAGTGCTAAGCCAGACCGAGGCCCGGCGACTTAGTAGAACGCTGCATGCGAGTG
CTGTACTACCGAGATGCCCGTTCTTACAACCGGTTTCAAACCGCCACTGTACCGAAAAA
GGTGTTGAAATAGAGGGACCATTGTCTACAGAGACCAACTGGGATATTGCCACATGATC
AGTGGCTTTGAATGA

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Clone variation with respect to NM\_002796.2  
495 c=>s;701 t=>c



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_002796 unedited  
 NGTTCANAATTGTATACGACTCACTATAGGCGGCCGCGNAATCGGCACGAGGGTGACTAA  
 GATGGAAGCGTTTTTGGGGTCGCGGTCCGGACTTTGGGCGGGGGTCCGGCCCCAGGACA  
 GTTTTACCGCATTCCGTCCACTCCCGATTCTTTCATGGATCCGGCGTCTGCACCTTACAG  
 AGGTCCAATCACGCGGACCCAGAACCCCATGGTGACCGGGACCTCAGTCTCGGCCTTAA  
 GTTCGAGGGCGGAGTGGTGATTGCCGACAGATGCTGGGATCCTACGGCTCCTTGGCTCG  
 TTTCCGCAACATCTCTCGCATTATGCGAGTCAACAACAGTACCATGCTGGGTGCCTCTGG  
 CGACTACGCTGATTTCCAGTATTTGAAGCAAGTTCTCGGCCAGATGGTGATTGATGAGGA  
 GCTTCTGGGAGATGGACACAGCTATAGTCTAGAGCTATTCACTTTCATGGCTGACCAGGGC  
 CATGTACAGCCGGCGCTCGAAGATGAACCTTTGTGGAACACCATGGTCATCGGAGGCTA  
 TGCTGATGGAGAGAGGTTTCATATGAATACCAATAAATTATTTCTTTACCACCCAACCTA  
 GTACCTGTGTAGTATCTTCTGTCTCTTCTCCCAAGTGAATCCCCTTCACTCAGAC  
 CCCATGGTCCCCTTCTCAGCTAAGATGAACCTAACGTGAAAAGAGTTTTGACCCATTGC  
 GTCCTGTAGCTTCTCGGGTATGTGGACCTGCTTGGTGTACCCATGAACCCCTTCTCT  
 GGCCCTGGTATGGGGCCCTCTGGCTCACCTTTGCTGGGAGAAATCTGGACAACCACC  
 CAAGTCTAACAGACCGAGGCCCGCACTATAAAACGCTGCTGCCAATGCCTGCCCTCC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_002796 unedited  
 CCGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGCATTTTGAAGAATTTAT  
 TTACTTTACAAAAGAAGAGTCTATCTTTGAACTAGCCAAGTTCAAAGTTAAAAGTAGGGC  
 AACTTCAGTTCTGGATAATGCATCTGTATTTCAATCAAAGCCACTGATCATGTGGCAAT  
 ATCCCAGTTGGTCTCTGTAGACAATGGTCCCTCTATTTCAACACCTTTTTCGGTGACAGT  
 GCGGTTTTGAAACCGTTGTAAGAACGGGCATCTCGGTAGTACAGCACTCGCATGCAGCG  
 TTCTACTAAGTCGCGGGCTCGGTCTGGCTTAACACTGGCTGCTTCTCCAGAACTTCTCG  
 CAGCAGAGGCTGAGCCAAGTATGCACCATAAACCAGTGGCCAGCGAAGGGGCTTCATAGGC  
 TACACCAAGCATGTCCACATAACCGAGGAAGCTAACAGGACACAATGGGTCAAAACTCAT  
 TTCACCTTAGGTTTCATCTTAGCTGAAGAAGGGGACCATGGGGTCTGAGTTAAAGTGGGAT  
 TCCTTGGGGAGAAGAGACAGAAGAGATACTACACAGGTAAGGTTGGGTGGTAAAGGA  
 AATAAGTTATTTGATTCATATGAACCTCTCTCCATCAGCATAGCCTCCGATGACCATGG  
 TGTTCCACAAAGGTTTCATCTTCGAGCGCCGGCTGTACATGGCCCTGGTCAGCCATGAAT  
 GAATAGCTCTNAGACTATAGCTGTGTCCATCTCCAGAAGCTCCTCATCAATCACCATCC  
 TGCCGAGAACTTGCTCCAATACTGGGAATCAACGTATTCCCCAGAAGCACCAGCATGG  
 TCCTTGTGTGACTCGCATAATGCGAGAGAAGTTGCGGAAACAAGCCAAGAGCCCTAGG  
 ATTCCAACATGTCTGCGGAATCACCCTCCGCC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_002796

**Insert Size:**

1140 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_002796.2</a> , <a href="#">NP_002787.2</a>
<b>RefSeq Size:</b>	925 bp
<b>RefSeq ORF:</b>	795 bp
<b>Locus ID:</b>	5692
<b>UniProt ID:</b>	<a href="#">P28070</a>
<b>Cytogenetics:</b>	1q21.3
<b>Domains:</b>	proteasome
<b>Protein Families:</b>	Druggable Genome, Protease
<b>Protein Pathways:</b>	Proteasome
<b>Gene Summary:</b>	<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. [provided by RefSeq, Jul 2008]</p>