

## Product datasheet for SC101180

### Proteasome 20S beta 6 (PSMB6) (NM\_002798) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Proteasome 20S beta 6 (PSMB6) (NM_002798) Human Untagged Clone
Tag:	Tag Free
Symbol:	Proteasome 20S beta 6
Synonyms:	DELTA; LMPY; Y
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC101180 sequence for NM_002798 edited (data generated by NextGen Sequencing)

```

ATGGCGGCTACCTTACTAGCTGCTCGGGGAGCCGGGCCAGCACCCGGCTTGGGGGCCGGAG
GGTTCACTCCAGACTGGGAAAGCCGAGAAGTTTCCACTGGGACCACTATCATGGCCGTG
CAGTTTGACGGGGCGTGGTTCTGGGGCGGACTCCAGAACAACCACTGGGTCTACATC
GCCAATCGAGTGACTGACAAGCTGACACCTATTCACGACCGCATTTTCTGCTGTCGCTCA
GGCTCAGCTGCTGATACCCAGGCAGTAGCTGATGCTGTCACCTACCAGCTCGTTTCCAC
AGCATTGAACTGAATGAGCCTCCACTGGTCCACACAGCAGCCAGCCTCTTAAGGAGATG
TGTTACCGATACCGGGAAGACCTGATGGCGGGAATCATCATCGCAGGCTGGGACCCTCAA
GAAGGAGGGCAGGTGTAAGTCACTCAGTGCCTATGGGGGTATGATGGTAAGGCAGTCCTTGCC
ATTGGAGGCTCCGGGAGCTCCTACATCTATGGCTATGTTGATGCTACCTACCGGGAAGGC
ATGACCAAGGAAGAGTGTCTGCAATCACTGCCAATGCTCTCGCTTTGGCCATGGAGCGG
GATGGCTCCAGTGAGGAGTGATCCGCCTGGCAGCCATTGCGAGTCAAGGGTAGAGCGG
CAAGTACTTTTGGGAGACCAGATACCCAAATTCGCCGTTGCCACTTTACCACCCGCTGA

```

Clone variation with respect to NM\_002798.1



[View online »](#)

<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_002798 unedited TTCAAATTTTGTAAACGACTCACTATAGGGCGGCCGCGAAATTCGCACGAGGAAAGAGG CGGCTACCTTACTAGCTGCTCGGGGAGCCGGGCCAGCACCGGCTTGGGGCCGGAGGCGT TCACTCCAGACTGGGAAAGCCGAGAAGTTTCCACTGGGACCACTATCATGGCCGTGCAGT TTGACGGGGCGTGGTTCTGGGGCGGACTCCAGAACAACCACTGGGTCTACATCGCCA ATCGAGTGACTGACAAGCTGACACCTATTCACGACCGCATTTTCTGCTGTCGCTCAGGCT CAGCTGCTGATACCCAGGCAGTAGCTGATGCTGTACCTACCAGCTCGGTTCCACAGCA TTGAACCTGAATGAGCCTCCACTGGTCCACACAGCAGCCAGCCTCTTTAAGGAGATGTGTT ACCGATACCGGGAAGACCTGATGGCGGGAATCATCATCGCAGGCTGGGACCCTCAAGAAG GAGGGCAGGTGTACTCAGTGCCTATGGGGGTATGATGGTAAGGCAGTCCTTTGCCATTG GAGGCTCCGGGAGCTCCTACATCTATGGCTATGTTGATGCTACCTACCGGGAAGGCATGN ACCAAGAAGAGTGTCTGCAATTCCTGCAATGCTCTCGCTTTGGCCATGGAGCGGGATG GCTCCAGTGGAGGAGTATCCGCCTGGCAGCCATTGCAGAGTCAGGGGTAGAGCGGCAAG TACTTTTGGGAGACCAGATACCCAAATTCGCCGTTGCCACTTTACCACCCGNCTGAATCC TGNGATTCTAGTATGCAATAAGAGATGCCCTGACTGATGCAAAATTAATAAGNTTGTC ACAGAGAAAAAAAAAAAAAAAAAAGTCTGACTCTAGATTGGGNCGCGTTCATAGCTGNTTCT GAACAGACCCGGNTGGCATNNTGTTGACCCTNCCAGTNCCTTNTCTGGGCTGGAANNNT GCACTCATGCN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002798
<b>Insert Size:</b>	800 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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>	<u><a href="#">NM_002798.1</a></u> , <u><a href="#">NP_002789.1</a></u>
<b>RefSeq Size:</b>	849 bp
<b>RefSeq ORF:</b>	720 bp
<b>Locus ID:</b>	5694
<b>UniProt ID:</b>	<u><a href="#">P28072</a></u>
<b>Cytogenetics:</b>	17p13.2
<b>Domains:</b>	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. The encoded protein is a member of the proteasome B-type family, also known as the T1B family, and is a 20S core beta subunit in the proteasome. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jul 2012]  
Transcript Variant: This variant (1) encodes the longer isoform (1).