

## Product datasheet for **MC200276**

### **Psmb4 (NM\_008945) Mouse Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Psmb4 (NM_008945) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Psmb4
Synonyms:	Pros-27
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC008241 sequence for NM_008945 CTAAGATGGAAGCGTTTTGGGAGTCACGGGCTGGCCACTGGGCCGGGGTCCGGCTCCGGGGCAGTTTTA CCGCATCCCGTCCACCCCAGCGGCCTCATGGACCCGGCGTCGGCGCCCTGCGAGGGTCCCATCACTCGG ACCCAGAACCCCATGGTGACCGGGACATCGGTACTCGGGGTGAAGTTCGACGCGGAGTGGTGATTGCTG CAGACATGCTGGGCTCCTACGGCTCCCTGGCTCGTTTTCCGCAATATCTCTCGTATTATGCGAGTCAACGA CAGCACTATGCTGGGTGCCTCGGGAGACTACGCTGATTTCCAGTATTTGAAACAAGTTCTCGGCCAGATG GTGATTGATGAAGAGCTGTTGGGAGATGGACACAGCTATAGCCCTAGAGCTATTCATTATGTTGACAA GAGCCATGTACAGCCCGCTCCAAGATGAATCCCCTGTGGAACACCATGGTCATTGGAGGCTATGCTGA CGGAGAAAGCTTCTCGTTATGTGGACATGCTTGGTGTAGCTTATGAAGCCCCTCACTGGCCACTGGT TATGGTGCATACTGGCTCAGCCTCTGCTTCGAGAAGTTCTAGAGAAGCAGCCAGTGCTGAGTCAGACTG AGGCTCGGGAGCTTGTGGAGCGCTGCATGAGAGTGTACTACAGAGATGCCCGTTCGTATAACCGGTT TCAAATTGCCACTGTGACTGAAAAGGGTGTGAGATAGAAGACCCTGTCCGCACAGACCAACTGGGAC ATCGCTCACATGATCAGTGGCTTTGAATGAAATCCAGTTGAATGTCCAGAGTGTTGAAGCTTTGCTCTTC TAAACGTGACTGTAGCTGGCTCAAAGGCAGACTTTTGTAAAATAAATCAGTCGTTTGAAGTGTTCAAAAA AAAAAAAAAA
Restriction Sites:	RsrII-NotI
ACCN:	NM_008945
Insert Size:	795 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).



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**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:** [BC008241](#), [AAH08241](#)

**RefSeq Size:** 920 bp

**RefSeq ORF:** 795 bp

**Locus ID:** 19172

**UniProt ID:** [P99026](#)

**Cytogenetics:** 3 40.74 cM

**Gene Summary:** Component of the 20S core proteasome complex involved in the proteolytic degradation of most intracellular proteins. This complex plays numerous essential roles within the cell by associating with different regulatory particles. Associated with two 19S regulatory particles, forms the 26S proteasome and thus participates in the ATP-dependent degradation of ubiquitinated proteins. The 26S proteasome plays a key role in the maintenance of protein homeostasis by removing misfolded or damaged proteins that could impair cellular functions, and by removing proteins whose functions are no longer required. Associated with the PA200 or PA28, the 20S proteasome mediates ubiquitin-independent protein degradation. This type of proteolysis is required in several pathways including spermatogenesis (20S-PA200 complex) or generation of a subset of MHC class I-presented antigenic peptides (20S-PA28 complex). SMAD1/OAZ1/PSMB4 complex mediates the degradation of the CREBBP/EP300 repressor SNIP1.[UniProtKB/Swiss-Prot Function]