

## Product datasheet for **MR223033**

### **Psmb9 (NM\_013585) Mouse Tagged ORF Clone**

#### **Product data:**

**Product Type:** Expression Plasmids  
**Product Name:** Psmb9 (NM\_013585) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Psmb9  
**Synonyms:** Lmp-2; Lmp2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR223033 representing NM\_013585  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGCGGGCAGGAGCACCTACCGCCGGCTCGTTCGGACGGAAGAAGTCCACACCGGGACAACCATCA  
TGGCAGTGGAGTTTGACGGGGTGTCTGGTGGGCTCTGATCCCGGGTGTGAGCGGGAACAGCAGTGGT  
GAACCGCGTGTTCGACAAGCTCTCCCTCTGCACCAGCACATCTCTGTGCCCTCTCAGTTCCGCTGCT  
GATGCCAAGCCATAGCTGACATGGCCGCCTACCAGCTGGAGCTACACGGGTTGGAGCTGGAGGAGCCGC  
CCCTCGTTCTGGCTGCTGCAAACGTGGTGAAGAACATCTCCTACAAGTACCGTGAGGACTTGTTAGCGCA  
TCTCATAGTAGCTGGCTGGGACCAATGTGAGGGGGACAGGTATATGGAACCATGGGAGGGATGCTAATT  
CGACAGCCCTTTACCATCGGCGGTTCCGGAAGCTCCTACATTTATGGTTATGTGGACGCAGCTTATAAGC  
CAGGCATGACCCCTGAGGAGTGCCGGCGTTTCACCACAGATGCCATCACTCTGGCCATGAACCGAGATGG  
CTCTAGTGGGGTGTCTACCTGGTCACCATCACAGCTGTGGTGTGGACCATCGAGTCATCCTGGGA  
GATGAGCTGCCAAAATTCTACGATGAG

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR223033 representing NM\_013585  
Red=Cloning site Green=Tags(s)

MLRAGAPTAGSFRTEEVHTGTTIMAVEFDGGVVVGSRSVSAGTAVVNRVFDKLSPLHQHIFCALSGSAA  
 DAQAIADMAAYQLELHGLELEEPPLVLAANVVKNISYKYREDLLAHLIVAGWDQCEGGQVYGTMGMLI  
 RQFFTIGSGSSYIYGVDAAAYKPGMTPEECRFTTDAITLAMNRDGS SGGVIYLVITITAAAGVDHRVILG  
 DELPKFYDE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9075\\_f08.zip](https://cdn.origene.com/chromatograms/mm9075_f08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_013585

**ORF Size:** 657 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_013585.2](#), [NP\\_038613.1](#)

**RefSeq Size:** 806 bp

**RefSeq ORF:** 660 bp

**Locus ID:** 16912

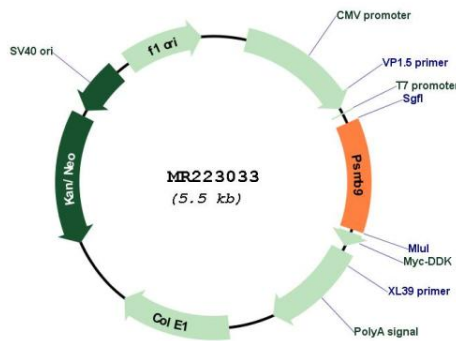
**UniProt ID:** [P28076](#)

**Cytogenetics:** 17 17.98 cM

**MW:** 23.3 kDa

**Gene Summary:** The proteasome is a multicatalytic proteinase complex which is characterized by its ability to cleave peptides with Arg, Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral or slightly basic pH. The proteasome has an ATP-dependent proteolytic activity. This subunit is involved in antigen processing to generate class I binding peptides. Contributes to NFKBIA degradation and subsequently NFKB1 generation.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR223033