

Product datasheet for **MG223033**

Psmb9 (NM_013585) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Psmb9 (NM_013585) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Psmb9
Synonyms: Lmp-2; Lmp2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG223033 representing NM_013585
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCGGGCAGGAGCACCTACCGCCGGCTCGTTCGGACGGAAGAAGTCCACACCGGGACAACCATCA
TGGCAGTGGAGTTTGACGGGGTGTCTGGTGGGCTCTGATCCCGGGTGTGAGCGGGAACAGCAGTGGT
GAACCGCGTGTTCGACAAGCTCTCCCTCTGCACCAGCACATCTCTGTGCCCTCTCAGTTCCGCTGCT
GATGCCAAGCCATAGCTGACATGGCCGCCTACCAGCTGGAGCTACACGGGTTGGAGCTGGAGGAGCCGC
CCCTCGTTCTGGCTGCTGCAAACGTGGTGAAGAACATCTCCTACAAGTACCGTGAGGACTTGTTAGCGCA
TCTCATAGTAGCTGGCTGGGACCAATGTGAGGGGGACAGGTATATGGAACCATGGGAGGGATGCTAATT
CGACAGCCCTTTACCATCGGCGGTTCCGGAAGCTCCTACATTTATGGTTATGTGGACGCAGCTTATAAGC
CAGGCATGACCCCTGAGGAGTGCCGGCGTTTCACCACAGATGCCATCACTCTGGCCATGAACCGAGATGG
CTCTAGTGGGGTGTCTACCTGGTCACCATCACAGCTGTGGTGTGGACCATCGAGTCATCCTGGGA
GATGAGCTGCCAAAATTCTACGATGAG

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG223033 representing NM_013585
Red=Cloning site Green=Tags(s)

MLRAGAPTAGSFRTEEVHTGTTIMAVEFDGGVVVGSRSVSAGTAVVNRVFDKLSPLHQHIFCALSGSAA
 DAQAIADMAAYQLELHGLELEEPPLVLAANVVKNISYKYREDLLAHLIVAGWDQCEGGQVYGTMGGLI
 RQPFITIGSGSSYIYGYVDAAYKPGMTPEECRFFTTDAITLAMNRDGS SGGVIYLVITITAAGVDHRVILG
 DELPKFYDE

TRTRPLE - GFP Tag - V

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

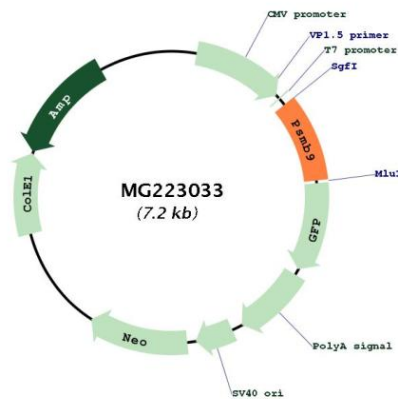
Locus ID: 16912

UniProt ID: [P28076](#)

Cytogenetics: 17 17.98 cM

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 MG223033