

Product datasheet for **MG203661**

Psmb10 (NM_013640) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Psmb10 (NM_013640) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Psmb10
Synonyms: Mecl-1; Mecl1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG203661 representing NM_013640
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGAAGGAGGCAGTGAACCCAGAGGAGGCTTCTCTTTCGAGAACTGCCAGAGGAATGCGTCTTGG
 AACACGTCCTTCCGGGACTTCGGGTTCTCATGCACGCAAGACCGGGACTACCATCGCGGGGCTTGTGTT
 CCGAGATGGAGTCATCCTGGGAGCGGACACGCGGGCCACTAACGATTCGGTTGTGGCGGACAAAAGCTGC
 GAGAAGATCCACTTCATCGCCCCTAAAACTACTGCTGTGGGGCTGGAGTAGCTGCGGACACTGAGATGA
 CTACGCGGATGGCAGCTCCAAGATGGAACCTACATGCGCTGTCCACCGGCCGTGAGCCTCGGGTGGCCAC
 GGTCAACCGTATCCTGCGCCAGACGCTTTTCCGGTACCAAGGCCACGTGGGGGCATCACTGGTCTGGGGC
 GGGGTTGATTTGAACGGACCTCAGCTCTACGAGGTGCACCCACATGGTTCCTACAGCCGTCTGCCCTTTA
 CTGCCCTTGGCTCTGGTCAGGGTGCAGCCGTGGCACTGTTGGAAGACCGTTCCAGCCAAACATGACGCT
 GGAGGCTGCGCAAGAGCTGTTGGTGAAGCCATCACAGCAGGGATCCTGAGTGACCTGGGCTCTGGGGGC
 AATGTGGATGCCTGTGTGATCACTGCAGGGGTGCCAAGCTGCAGAGAGCATTGAGCACCCACCAGGC
 CTGTGCAGAGAGCTGGCCGTTACCGATTTGCTCCTGGAACACACCTGTCCTGACCCGGGAAGTGAGACC
 CCTGACCCTGGAACCTTTGAGGAACTGTGCAGGCCATGGAGGTGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203661 representing NM_013640
 Red=Cloning site Green=Tags(s)

MLKEAVEPRGGFSFENCQRNASLEHVLPLGLRVPHARKTGTTIAGLVFRDGVILGADTRATNDSVADKSC
 EKIHFIAPKIYCCGAGVAADTEMTRMAASKMELHALSTGREPRVATVTRILRQTLFRYQGHV GASLVVG
 GVDLNGPQLYEVHPHGSYRSLPFTALGSGQGAVALLEDRFQPNMTLEAAQELLVEAITAGILSDLGSGG
 NVDACVITAGGAKLQRALSTPTEPVQRAGRYRFAPGTT PVL TREVRPLTLELLEETVQAMEVE

TRTRPLE - GFP Tag - V

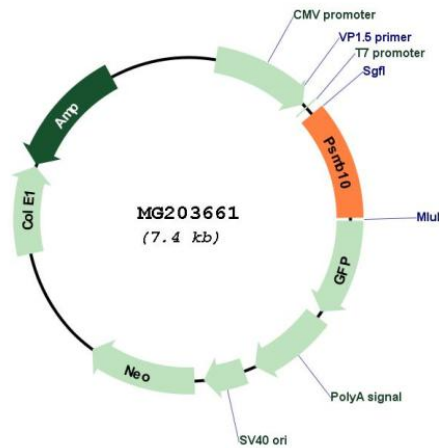
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_013640

ORF Size: 819 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:	<ol style="list-style-type: none">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_013640.1 , NP_038668.1
RefSeq Size:	960 bp
RefSeq ORF:	822 bp
Locus ID:	19171
UniProt ID:	O35955
Cytogenetics:	8 53.06 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. Plays a role in determining the T-cell repertoire for an antiviral T-cell response.[UniProtKB/Swiss-Prot Function]