

Product datasheet for **MG203169**

Psme1 (NM_011189) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Psme1 (NM_011189) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Psme1
Synonyms: AW413925; PA28a
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG203169 representing NM_011189
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCACTGAGGGTCCATCCCAGCCCAAGCCAAGGTGGATGTGTTCCGTGAAGACCTGTGTAGCA
AGACAGAGAACCTGCTTGGGAGCTATTTTCCCAAGAAAATCTCAGAGTTGGATGCGTTCTTAAAGGAGCC
AGCTCTCAATGAAGCCAACCTGAGCAATCTGAAGGCTCCATTGGACATCCAGTACCCGATCCAGTCAA
GAGAAAGAGAAGGAGGAGCGGAAGAAGCAACAGGAGAAGGAAGAGAAGGAAGAGAAGAAGGGGACG
AAGACGACAAAGGTCCCCCTGTGGCCAGTGAAGTCAATGAGAAGATTGTGGTCTCTGCAACGCCT
AAAACCTGAGATCAAGGATGTCAGTGAAGCAACTCAATCTGGTCACTACCTGGTTGACGCTACAGATACCT
CGGATAGAGGATGGGAATAATTTTGGCGTGGCTGTCCAGGAAAAGGTGTTTGGAGCTGATGACCAACCTTC
ACACCAAGCTGGAAGGCTTCCACACGCAGATCTCCAAGTACTTCTCCGAGAGGGGTGACGCCGTGGCCAA
AGCAGCCAAGCAGCCCCACGTGGGTGACTATCGGCAGCTGGTGCACGAGCTGGACGAGGCGGAGTACCAG
GAGATCCGTCTGATGGTCATGGAGATCCGAAATGCTTATGCTGTGTTATATGACATCATCTGAAGAAGT
TTGAGAAGCTCAAGAAGCCCCGTGGAGAAACCAAGGGAATGATCTAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203169 representing NM_011189
Red=Cloning site Green=Tags(s)

MATLRVHPEAQAKVDFVREDLCSKTENLLGSYFPKKISELDAFLKEPALNEANLSNLKAPLDIPVDPVK
 EKEKEERKKQKEKEEKEEKKGGEDDDKGPVNCNEKIVVLLQRLKPEIKDVTEQLNLVTTWLQLQIP
 RIEDGNNFGVAVQEKVFLMTNLHTKLEGFHTQISKYFSEKGDVAKAAKQPHVGDYRQLVHELDEAEYQ
 EIRLMVMEIRNAYAVLYDIILKNFEKLLKPRGETKGMIIY

TRTRPLE - GFP Tag - V

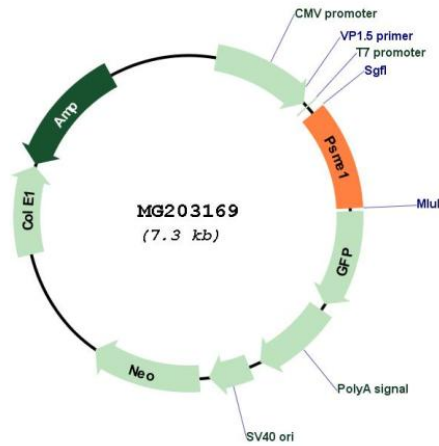
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_011189

ORF Size: 747 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_011189.1 , NP_035319.1
RefSeq Size:	977 bp
RefSeq ORF:	750 bp
Locus ID:	19186
UniProt ID:	P97371
Cytogenetics:	14 28.19 cM
Gene Summary:	Implicated in immunoproteasome assembly and required for efficient antigen processing. The PA28 activator complex enhances the generation of class I binding peptides by altering the cleavage pattern of the proteasome.[UniProtKB/Swiss-Prot Function]