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# Product datasheet for MG203255

## Psme3 (NM_011192) Mouse Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Psme3 (NM_011192) Mouse Tagged ORF Clone |
| **Tag:** | TurboGFP |
| **Symbol:** | Psme3 |
| **Synonyms:** | AA410043; AU020960; Ki; pa28g; PA28gamma; REGgamma |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

**ORF Nucleotide Sequence:**

>MG203255 representing NM_011192
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCTCGTTGCTGAAGGTGGATCAGGAAGTGAAGCTCAAGGTTGATTCTTTCAGAGAGCGGATCACAA
GTGAGGCAGAAGACTTGGTGGCAAATTTTTTCCCAAAGAAGTTACTAGAACTTGATAGTTTTTTGAAGGA
ACCAATTCTAAATATCCATGACCTAACTCAGATCCACTCAGACATGAACCTCCCAGTCCCTGACCCCATT
CTCCTCACCAATAGCCACGATGGACTGGATGGTCCCACTTACAAGAAGCGCAGGTTGGATGAATGTGAAG
AGGCCTTTCAAGGAACCAAGGTGTTTGTGATGCCCAATGGGATGTTGAAAAGCAACCAGCAGCTTGTGGA
CATTATTGAGAAAGTAAAACCCGAGATTCGGCTGCTGATCGAGAAATGTAACACGGTCAAAATGTGGGTT
CAGCTGTTGATTCCCAGAATAGAAGATGGGAACAACTTCGGGGTATCAATTCAGGAGGAAACAGTTGCTG
AACTAAGAACTGTGGAGAGTGAAGCCGCATCTTACCTGGACCAGATTTCTAGATATTATATTACAAGAGC
CAAATTGGTTTCTAAAATAGCTAAATATCCCCATGTGGAGGACTATCGCCGCACTGTCACAGAGATTGAT
GAGAAAGAATACATCAGCCTCCGGCTCATCATCTCAGAGCTGAGGAATCAGTATGTCACTCTCCATGACA
TGATCCTGAAAAACATTGAGAAGATCAAACGGCCCCGGAGCAGCAATGCAGAGACACTGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:**

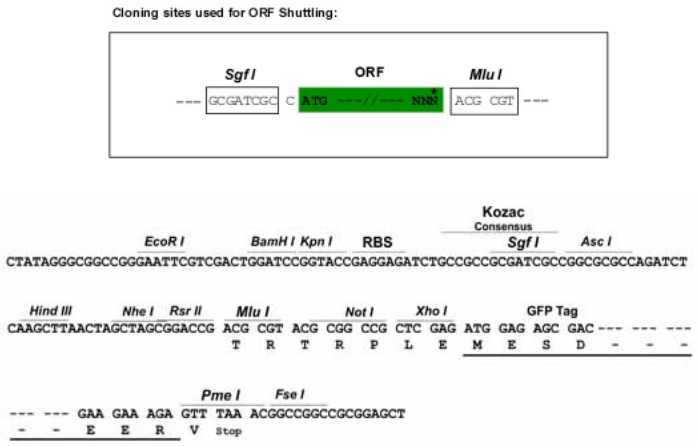
>MG203255 representing NM_011192
Red=Cloning site Green=Tags(s)

MASLLKVDQEVKLKVDSFRERITSEAEDLVANFFPKKLLELDSFLKEPILNIHDLTQIHSDMNLPVPDPI
LLTNSHDGLDGPTYKKRRLDECEEAFQGTKVFVMPNGMLKSNQQLVDIIEKVKPEIRLLIEKCNTVKMWV
QLLIPRIEDGNNFGVSIQEETVAELRTVESEAASYLDQISRYYITRAKLVSKIAKYPHVEDYRRTVTEID
EKEYISLRLIISELRNQYVTLHDMILKNIEKIKRPRSSNAETLY

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_011192

**ORF Size:** 762 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** NM_011192.4

**RefSeq Size:** 2620 bp

**RefSeq ORF:** 765 bp

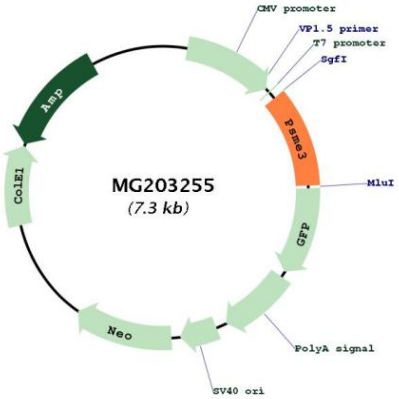
**Locus ID:** 19192

**UniProt ID:** P61290

**Cytogenetics:** 11 64.67 cM

**Gene Summary:** Subunit of the 11S REG-gamma (also called PA28-gamma) proteasome regulator, a doughnut-shaped homoheptamer which associates with the proteasome. 11S REG-gamma activates the trypsin-like catalytic subunit of the proteasome but inhibits the chymotrypsin-like and postglutamyl-preferring (PGPH) subunits. Facilitates the MDM2-p53/TP53 interaction which promotes ubiquitination- and MDM2-dependent proteasomal degradation of p53/TP53, limiting its accumulation and resulting in inhibited apoptosis after DNA damage. May also be involved in cell cycle regulation. Mediates CCAR2 and CHEK2-dependent SIRT1 inhibition (By similarity).[UniProtKB/Swiss-Prot Function]

## Product images:




Circular map for MG203255