

Product datasheet for MR203255

Psme3 (NM_011192) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Psme3 (NM_011192) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Psme3
Synonyms:	AA410043; AU020960; Ki; pa28g; PA28gamma; REGgamma
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203255 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTCGTTGCTGAAGGTGGATCAGGAAGTGAAGCTCAAGTTGATTCTTTCAGAGAGCGGATCACAA
GTGAGGCAGAAGACTTGGTGGCAAATTTTTCCCAAAGAAGTTACTAGAAGTTGATAGTTTTTTGAAGGA
ACCAATTCTAAATATCCATGACCTAACTCAGATCCACTCAGACATGAACCTCCAGTCCCTGACCCATT
CTCCTCACCAATAGCCACGATGGACTGGATGGTCCCACTTACAAGAAGCGCAGGTTGGATGAATGTGAAG
AGGCCTTCAAGGAACCAAGGTGTTGTGATGCCAATGGGATGTTGAAAAGCAACCAGCAGCTTGTGGA
CATTATTGAGAAAAGTAAAACCCGAGATTCGGCTGCTGATCGAGAAATGTAAACACGGTCAAATGTGGGTT
CAGCTGTTGATTCCCAGAATAGAAGATGGGAACAACCTTCGGGGTATCAATTCAGGAGGAAACAGTTGCTG
AACTAAGAACTGTGGAGAGTGAAGCCGCATCTTACCTGGACCAGATTTCTAGATATTATATTACAAGAGC
CAAATTGGTTTTCTAAAATAGCTAAATATCCCCATGTGGAGGACTATCGCCGCACTGTCACAGAGATTGAT
GAGAAAGAATACATCAGCCTCCGGCTCATCTCAGAGCTGAGGAATCAGTATGCTACTCTCCATGACA
TGATCCTGAAAAACATTGAGAAGATCAAACGGCCCCGGAGCAGCAATGCAGAGACTGTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203255 protein sequence
Red=Cloning site Green=Tags(s)

MASLLKVDQEVKLVDSFRERITSEAEDLVANFFPKLLELDSFLKEPILNIHDLTQIHSMDNLPVPDPI
 LLTNSHDGLDGPITYKKRRLDECEEFQGTQVFVMPNGMLKSNQQLVDIEKVKPEIRLLIEKCNTVKMWV
 QLLIPRIEDGNFVSVIQEETVAELRTVESEAASYLDQISRYIITRAKLVSKIAYPHVEDYRRTVTEID
 EKEYISLRLIISELRNQYVTLHDMILKNIEKIKRPRSSNAETLY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_011192

ORF Size: 765 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_011192.4](#)

RefSeq Size: 2620 bp

RefSeq ORF: 765 bp

Locus ID: 19192

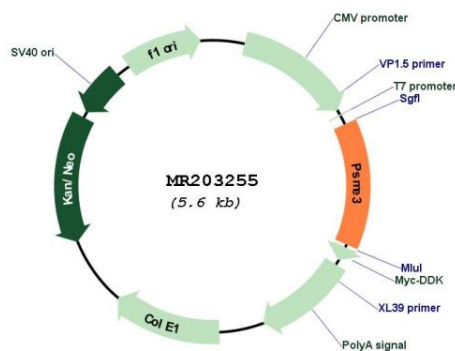
UniProt ID: [P61290](#)

Cytogenetics: 11 64.67 cM

MW: 29.5 kDa

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 MR203255