

Product datasheet for MR203941

Psmg1 (NM_019537) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Psmg1 (NM_019537) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Psmg1
Synonyms:	AW552102; Dscr2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203941 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCCACGTTCTTTGGCGAGGTGGTGAAGGCGCCGTGCAGAGCTGGGACTGAGGAGGAAGAAGAGG
AGGAGGAGCAGAGCAGGCGGGACACGCCGAGGACCGGGAGGTCCGGCGGCAGCTGGCGCGGAAGAGGGA
GGTTCGGCTTCTCCGAAGACAGACAGAAACATCTCTGGAGGCTGTGCTCCTAGAGACACACCCTTGCTCC
AAGTTTATAATTGCAGTAGGAAGCAACGCAACAGCATTCTGTGAGCGTTTGTATGAACTCGGGAGTCT
GGGAAGAAGTCGGTTGTGCTAAGCTCTGGAATGAATGGTGCAGAACTACAGACACTGTCCGTCTGTCCCC
TACAGATGTTTTCTGTGTGTTTTATCAACTGAAATCAGATCCCTCGGTTTTTCTATGTGAGTGTAGCTGC
TACATTGCTGAGGATCAGCAGTTCAGTGGTTGGAGAAGTTTTTCGGCTTCCAACCCAGAAAGAGCATGC
AGGTAACCGTTCTCACATGCCGGCACATCACAGACTACAAGACCCCGAGTCTACCTGCAGCCTTTCCCTC
TCCTTTCTGAGAGCCCTAAAACTCAGACATTCAAAGATGCCCTCTGTGCCCAGTGTGGAACAGCCG
AACATTGTGCATGACCTGTCTGCAGCAGTTCTGAGCTACTGTCAAGTATGGAAAAATCCCTGCGGTTCTGT
ATCTGTGCTACACTGATGTGATGAAGTTGGACCGTGTACGGTTGAAGCTTTTAAACCGTACTTTCTTC
CAGGAGCTTGAATGCTTGGTGAAGAATTCCTGAAAGCACAGAAATTCGAAGAAGTTGATGACCACA
AATGAGATTCAGAGCAACATTTACACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203941 protein sequence
Red=Cloning site Green=Tags(s)

MAATFFGEVVKAPCRAGTEEEEEEQSRRTDPEDREVRRLQARKREVRLLRRQTETSLEAVLLETHPCS
 KFIIAVGSNATAFLSAFVMNSGVWEEVGCACLWNEWCRTTDTVRLSPTDVFVYQLKSDPSVFLCQCSC
 YIAEDQQFQWLEKVFQPRKSMQVTVLTCRHITDYKTPESTCSLSSPFLRALKTQTFKDALCCPLLEQP
 NIVHDLSSAVALSYCQVWKIPAVLYLCYTDVMKLDRTVEAFKPLLSSRSCLKLVKNIPESTEILKKLMTT
 NEIQSNIYT

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_019537

ORF Size: 870 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_019537.3](#)

RefSeq Size: 1017 bp

RefSeq ORF: 870 bp

Locus ID: 56088

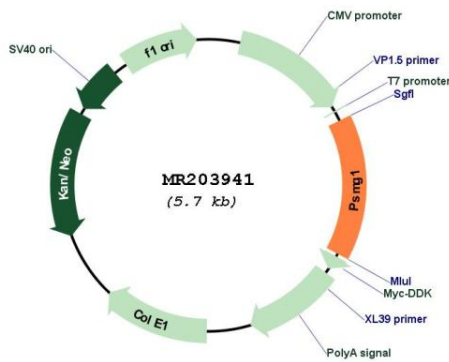
UniProt ID: [Q9JK23](#)

Cytogenetics: 16 C4

MW: 33.1 kDa

Gene Summary: Chaperone protein which promotes assembly of the 20S proteasome as part of a heterodimer with PSMG2. The PSMG1-PSMG2 heterodimer binds to the PSMA5 and PSMA7 proteasome subunits, promotes assembly of the proteasome alpha subunits into the heteroheptameric alpha ring and prevents alpha ring dimerization (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203941