

Product datasheet for **RR210267**

Psmf1 (NM_001101005) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Psmf1 (NM_001101005) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Psmf1
Synonyms: MGC93913; PSMF1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR210267 representing NM_001101005
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGGGCTTGGAGTTCTCTTCGCGTCGGCCGCGCCGGCCATGACCTGCCACAGGACGCACTCGTCT
GCTTCTTGCACTGGGAAGTGGTGACAAACGGCTACTATGGCTTGGGCACCGGCGACCAGCCAGACCCCAA
TGATAAGAAGTCAGAACTACTGCCGGCTGAGTGAACAGCAATAAAGAAGTGTATGCCCTCCGGTATGAG
TCTAAGGACGGTGCCAGAAAACCTCTTCTGAAAGCTGTGTCTGTGGAGAACGGCATGATCATCAATGTGC
TGGAGCATGGCACACAGCAGGTGGCAGACTTGACTCTGAACCTTAGATGACTATATTGATGCAGAAGACCT
GAGTGATTTCCACAGGACCTATAAGAATAGTGAGGAGCTTCGGTCTCGGATCAGATCTGGAATTATCACA
CCTATCCATGAGCAGTGGGAGAAGGTTTCGTTAAGCAGTCTCCTCGGGAGTTCCACCTGCCACTGCCA
GAGAGGTGGACCCACTCCGGATTTCTCACACCATCCTCATACTAGCCGGCAGCCTACTTGGCGTGATCC
CCTGAGCCCATTTGCTGTGGGGGAGAAGACCTAGACCCCTTTGGGTGTGAGAGGTGGCATGATTGTG
GATCCCTGAGATCCGGCTTCCAAGAGCACTTATTGACCCATCCTCAGGCCTCCCAAACCGGCTTCCTC
CTGGTGTGTGCCTCCAGGAGCTCGCTTTGACCCCTTTGGACCCATTGGGACCAGTCCATCTGGACCTAA
TCCTGACCATCTTCCCCACCGGCTACGATGACATGTACCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR210267 representing NM_001101005
Red=Cloning site Green=Tags(s)

MAGLEVLFASAAPAMTCPQDALVCFLHWEVVTNGYYGLGTGDQDPDNDKSELLPAEWNSNKELYALRYE
 SKDGARKLLLKAVSVENGMINVLEHGTTQVADLTNLDDYIDAEDLSDFHRTYKNSEELRSRIRSGIIT
 PIHEQWEKVRLLSSPPREFPPATAREVDPLRISSHHPHTSRQPTWRDPLSPFAVGGEDLDPFGCQRGGMIV
 DPLRSGFPRALIDPSSGLPNRLPPGAVPPGARDFDFGPIGTSPSGPNPDHLPPEGVDDMYL

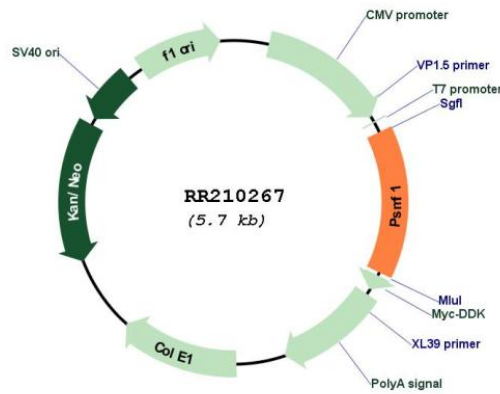
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001101005
ORF Size: 813 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_001101005.1 , NP_001094475.1
RefSeq Size:	1498 bp
RefSeq ORF:	816 bp
Locus ID:	689852
UniProt ID:	Q5XIU5
Cytogenetics:	3q41
MW:	29.9 kDa
Gene Summary:	Plays an important role in control of proteasome function. Inhibits the hydrolysis of protein and peptide substrates by the 20S proteasome. Also inhibits the activation of the proteasome by the proteasome regulatory proteins PA700 and PA28 (By similarity).[UniProtKB/Swiss-Prot Function]