

## Product datasheet for **RN210267**

### **Psmf1 (NM\_001101005) Rat Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Psmf1 (NM\_001101005) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Psmf1  
**Synonyms:** MGC93913; PSMF1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN210267 representing NM\_001101005  
**Red=Cloning site Blue=ORF Orange=Stop codon**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCGGGCTTGGAGGTTCTCTTCGCGTCGGCCGCGCCGGCCATGACCTGCCACAGGACGCACTCGTCT  
GCTTCTTGCACTGGGAAGTGGTGACAAACGGCTACTATGGCTTGGGCACCGGCGACCAGCCAGACCCCAA  
TGATAAGAAGTCAGAACTACTGCCGGCTGAGTGAACAGCAATAAAGAAGTGTATGCCCTCCGGTATGAG  
TCTAAGGACGGTGCCAGAAAACCTCTTCTGAAAGCTGTGTCTGTGGAGAACGGCATGATCATCAATGTGC  
TGGAGCATGGCACACAGCAGGTGGCAGACTTGACTCTGAACCTTAGATGACTATATTGATGCAGAAGACCT  
GAGTGATTTCCACAGGACCTATAAGAATAGTGAGGAGCTTCGGTCTCGGATCAGATCTGGAATTATCACA  
CCTATCCATGAGCAGTGGGAGAAGGTTTCGTTAAGCAGTCCTCCTCGGGAGTTCCACCTGCCACTGCCA  
GAGAGGTGGACCCACTCCGGATTTCTCACACCATCCTCATACTAGCCGGCAGCCTACTTGGCGTGATCC  
CCTGAGCCCATTTGCTGTCTGGGGAGAAGACCTAGACCCTTTGGGTGTCAGAGAGGTGGCATGATTGTG  
GATCCCTGAGATCCGGCTTCCAAGAGCACTTATTGACCCATCCTCAGGCCTCCCAAACCGGCTTCCTC  
CTGGTGTGTGCCTCCAGGAGCTCGCTTTGACCCCTTTGGACCCATTGGGACCAGTCCATCTGGACCTAA  
TCCTGACCATCTTCCCCACCGGCTACGATGACATGTACCTG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001101005  
**Insert Size:** 816 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001101005.1</a></u> , <u><a href="#">NP_001094475.1</a></u>
<b>RefSeq Size:</b>	1498 bp
<b>RefSeq ORF:</b>	816 bp
<b>Locus ID:</b>	689852
<b>UniProt ID:</b>	<u><a href="#">Q5XIU5</a></u>
<b>Cytogenetics:</b>	3q41
<b>Gene Summary:</b>	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]