

## Product datasheet for **RN209024**

### **Psm2 (NM\_001031639) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Psm2 (NM_001031639) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Psm2
Synonyms:	MGC116280
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN209024 representing NM\_001031639  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGAGGTTGGACGAGACAAGACACCCGTGCAGTCCCAACAACCCTCAGCGACAGCCCCAGCGGCG  
 CGGACGAGAAGTCGAGCGCAAGGAGCGACGGGATGCCGGGAAAAAGATAAAGAGCAGGAGCTGTCTGA  
 GGAGGACAAACAGCTTCAAGATGAACTGGAGATGCTCGTGGAGCGACTCGGGAAAAAGGATACATCCCTG  
 TACCGACCAGCTCTGGAGGAAGTGAAGAACAATCCGTTCTTCTACAACCTCCATGACCTCAGTACCGA  
 AACCTCTCAAATTTCTCGTCCACACTATGGCAAAGTGAAGAAATCTATGAGAATGAGGAGCTGGGGA  
 GAATAAGTGTCTTGTGCTGACATCATCTCTGTTTGGCCATGACCATGAGTGGTGGAGCGGGAGTGCCTC  
 AAGTATCGGCTAGTGGGCTCCAGGAAGAATTGGCATCGTGGGTCATGAGTATGTCAGACATCTGGCAG  
 GAGAAGTGGCTAAGGAGTGGCAGGAAGTGGATGATGCAGAGAAAGCACAGCGGGAACCATGCTTACCTT  
 GGTAAAGGAAATCGTCCCTACAACATGGCTCACATGCTGAGCAGGAGCTTGTGACCTGCTCATGGAG  
 ATCGAGCAGGTGGATATGCTGGAGAAGGACATCGATGAGAATGCATACTCCAAGGTCTGCCTCATCTCA  
 CCAAGTTGTGAATTATGTACCAGAACCCTGAGAACTCTGCCCTCTGCGCTGTGCCCTGGGCGTGTCCG  
 AAAGTTTAGCGTTTCCCTGAAGCTCTGAGATTGGCACTGATGCTCAATGACATGGAAGTGGTAGAAGAC  
 ATTTTACCTCTGCAAGGATGTGGTGGTCCAGAAGCAGATGGCCTTCATGCTGGGTCGGCATGGAGTGT  
 TCCTGGAGCTGAGTGAAGATGTAGAGGAATACGAAGACCTCACAGAAATCATGTCCAATGTCCAGCTCAA  
 CAGCAACTTCTGGCCTTAGCTCGGGAGCTGGACATCATGGAGCCCAAGGTGCCTGATGACATCTACAAA  
 ACCCACCTAGAGAATAACAGGTTTGGTGGCAGTGGCTCAGGTAGATTCTGCTCGAATGAACCTAGCCT  
 CCTCTTTTGTGAATGGCTTTGTGAACGCAGCCTTTGGTCAGGATAAACTCCTGACCGACGATGGCAACAA  
 ATGGCTGTACAAGAACAAGGACCACGGGATGTTAAGTGTGCTGCGTCCCTTGGCATGATTCTGCTGTGG  
 GATGTGGATGGTGGCCTCACCCAGATTGACAAGTATCTGTACTCCTCTGAGGACTACATCAAGTCAGGAG  
 CTCTCCTTGCCTGTGGTATCGTGAATTCTGGGTTTCGGAATGAGTGCATCCTGCCCTGGCACTGCTTTC  
 CGACTACGTTCTCCATAACAGCAATACCATGAGACTTGGCTCCATCTTCGGACTAGGTTTGGCCTATGCT  
 GGCTCTAATCGGGAAGATGTTCTAACACTGCTGCTACCTGTAATGGGAGATTCCAAGTCCAGCATGGAGG  
 TCGCAGGTGTGACGGCTCTGGCTTGTGGGATGATAGCAGTGGGCTTTCGAATGGAGATGCACTTCGAC  
 CATTCTCAGACCATCATGGAGAAATCTGAGACTGAGCTCAAGGACACCTACGCTCGTTGGCTTCTCTT  
 GGCTGGGCTCAATCACTTGGGGAAGGGCGAAGCCATCGAGGCGATCCTGGCTGCCCTGGAGGTTGTGT  
 CAGAACCCTTCCGAGCTTGGCAACACTCTGGTGGATGTGTGTGCTATGCAGGTTCCGGGAACGTGCT  
 GAAGGTTACAGCAGCTCCTCCACATCTGCAGTGGCACTTCGACTCTAAGGAGAAGGAAGAAGACAAGGAC  
 AAGAAGGAAAAGAAGGACAAGGACAAGAAGGAGGCCCTGCCGACATGGGAGCACATCAGGGAGTAGCTG  
 TTCTGGGAATCGCACTTATTGCTATGGGGGAAGAGATTGGTGCAGAGATGGCATTGCGAAGTTTGGTCA  
 TTTGCTGAGATATGGGGAACCTACCCTCCGTGGGCTGTACCGTTAGCACTGGCACTAATCTCTGTTTCA  
 AATCCACGACTCAACATCCTGGATACCTAAGCAAATCTCTCATGATGCTGATCCAGAAGTTTCTTATA  
 ACTCCATCTTGGCTATGGCATGGTGGCAGTGGTACCAACAATGCCGCTGGCTGCAATGCTGGCCCA  
 GTTAGCTCAGTATCACGCCAAGGACCCCAATAACCTCTCATGGTGGCCTTGGCACAGGGCCTGACACAT  
 TTAGGGAAGGGCACACTTACCCTTGCCTTACCACAGTACCAGGACGCTCATGATCAAGTGGCTGTGG  
 CGGGGCTGCTCACCGTGTGTTTCTTCTGGATGTGCGAAACATCATTCTAGGGAAATCTCACTATGT  
 ACTGTATGGGCTGGTGGCCGCATGCAGCCTCGGATGCTGGTTACATTTGATGAGGAGTTGCGACCATTG  
 CCAGTTTCTGTCCGCTGGGTCAGGCAGTGGATGTGGTGGCCAGGCTGGGAAGCCAAAACGATCACGG  
 GGTTCCAGACTCACAACTCCAGTGTGTTGGCCATGGGGAACGGGCGGAGCTGGCCACTGAGGAGTT  
 TCTCCCTGTCACCCCAATTCTGGAAGGCTTGTGCTTCTCGAAAGAACCCCACTACAATCTTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001031639

<b>Insert Size:</b>	2727 bp
<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_001031639.1</a></u> , <u><a href="#">NP_001026809.1</a></u>
<b>RefSeq Size:</b>	2920 bp
<b>RefSeq ORF:</b>	2727 bp
<b>Locus ID:</b>	287984
<b>UniProt ID:</b>	<u><a href="#">Q4FZT9</a></u>
<b>Cytogenetics:</b>	11q23
<b>Gene Summary:</b>	Component of the 26S proteasome, a multiprotein complex involved in the ATP-dependent degradation of ubiquitinated proteins. This complex plays a key role in the maintenance of protein homeostasis by removing misfolded or damaged proteins, which could impair cellular functions, and by removing proteins whose functions are no longer required. Therefore, the proteasome participates in numerous cellular processes, including cell cycle progression, apoptosis, or DNA damage repair.[UniProtKB/Swiss-Prot Function]