

## Product datasheet for MR222069

### Psmc6 (NM\_025959) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Psmc6 (NM_025959) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Psmc6
Synonyms:	2300001E01Rik; AI451058
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222069 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGACCCTAGAGATAAGGCGCTTCAGGACTATCGCAAGAAGCTGCTAGAGCACAAGGAGATTGACG  
GCCGTCTTAAGGAGCTAAGGGAACAATAAAAGAACTTACCAAGCAGTATGAAAAGTCTGAAAATGATTT  
GAAGGCACTACAAAGTGTGGACAGATTGTAGGTGAAGTCTAAAACAGTTAACAGAAGAAAAATTCATC  
GTTAAAGCAACAATGGACCAAGATACGTTGTAGGTTGTCGTCGTCAGCTTGACAAAAGTAAGCTGAAGC  
CAGGAACCAGAGTTGCTTTGGATATGACCACACTAACCATCATGAGATATCTGCCAAGAGAGGTGGATCC  
ATTGGTTTATAACATGTCTCACGAGGATCCTGGAAATGTATCTTATTCTGAGATTGGAGGCTGTCAGAA  
CAGATTCGGGAGTTAAGAGAGGTAATAGAAATGCCTCTTACAAATCCAGAATTATTCACGCGTGTAGGAA  
TAATACCTCCAAAAGGCTGTTTGTCTATGGACCGCCAGGCACTGGGAAAACACTCTTGGCACGAGCTGT  
TGCCAGCCAGCTGGACTGCAACTTCTAAAGGTTGTATCTAGTTCTATTGTAGACAAGTACATTTGGTGAA  
AGTGCTCGTTTGATTAGAGAAATGTTTAAATATGCCAGGGACCACCAGCCATGCATCATTTTTATGGATG  
AAATAGATGCTATTGGTGGCCGTCGGTTTTCTGAGGGAACATCAGCTGACAGAGAGATTCAGAGAAGCTTT  
AATGGAGTTACTAAATCAAATGGATGGATTTGATACTCTGCATAGAGTTAAAATGATCATGGCTACAAAC  
AGACCAGATACACTGGATCCTGCTTTGCTGCCCCAGGAAGATTAGATAGAAAAATACATATCGATTTTAC  
CAAATGAACAAGCAAGATTAGATATATTGAAAATCCACGCAGGACCTATTACAAAGCATGGTGAATAGA  
TTATGAAGCAATTGTAAGCTTTTCAGATGGCTTTAATGGAGCAGACCTGAGAAATGTTTGTACTGAAGCA  
GGTATGTTTGAATTCGTGCCGATCATGATTTGTAGTTCAGGAAGACTTCATGAAAGCAGTCAGGAAAG  
TGGCTGACTCCAAGAAGCTGGAGTCCAAGCTGGACTACAAACCTGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR222069 protein sequence  
Red=Cloning site Green=Tags(s)

MADPRDKALQDYRKKLLEHKEIDGRLKELREQLKELTKQYEKSENDLKALQSVGQIVGEVLKQLTEEKFI  
 VKATNGPRYVVGCRRLDKSKLKPGRVALDMTTLTIMRYLPREVDPLVYNMSHEDPGNVSYSYSEIGGLSE  
 QIRELREVIELPLTNPELFRVGIIPPKGCLLYGPPGTGKTLARAVASQLDCNFLKVVSSSIVDKYIGE  
 SARLIREMFNYARDHQPCIIFMDEIDAIGRRFSEGTADREIQRTLMELLNQMDGFDTLHRVKMIMATN  
 RPDTLDPALLRPGRDRKIHIDL PNEQARLDILKIHAGPITKHGEIDYEAIVKLSDFNGADLRNVCTEA  
 GMFAIRADHDFVVQEDFMKAVRKVADSKKLESKLDYKPV

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\_025959

**ORF Size:** 1167 bp

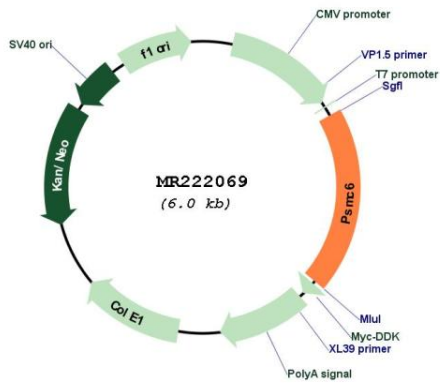
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_025959.3</a> , <a href="#">NP_080235.2</a>
<b>RefSeq Size:</b>	1564 bp
<b>RefSeq ORF:</b>	1170 bp
<b>Locus ID:</b>	67089
<b>UniProt ID:</b>	<a href="#">P62334</a>
<b>Cytogenetics:</b>	14 C1
<b>MW:</b>	44.2 kDa
<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. PSMC6 belongs to the heterohexameric ring of AAA (ATPases associated with diverse cellular activities) proteins that unfolds ubiquitinated target proteins that are concurrently translocated into a proteolytic chamber and degraded into peptides.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222069