

Product datasheet for **MG222069**

Psmc6 (NM_025959) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Psmc6 (NM_025959) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Psmc6
Synonyms:	2300001E01Rik; AI451058
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222069 representing NM_025959 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGACCCTAGAGATAAGGCGCTTCAGGACTATCGCAAGAAGCTGCTAGAGCACAAGGAGATTGACG
GCCGTCTTAAGGAGCTAAGGGAACAATAAAAGAACTTACCAAGCAGTATGAAAAGTCTGAAAATGATTT
GAAGGCACTACAAAGTGTGGACAGATTGTAGGTGAAGTCTAAAACAGTTAACAGAAGAAAAATTCATC
GTTAAAGCAACAATGGACCAAGATACGTTGTAGGTTGTCGTCGTCAGCTTGACAAAAGTAAGCTGAAGC
CAGGAACCAGAGTTGCTTTGGATATGACCACACTAACCATCATGAGATATCTGCCAAGAGAGGTGGATCC
ATTGGTTTATAACATGTCTCACGAGGATCCTGGAAATGTATCTTATTCTGAGATTGGAGGCTGTCAGAA
CAGATTCGGGAGTTAAGAGAGGTAATAGAAATGCCTCTTACAAATCCAGAATTATTCACGCGTGTAGGAA
TAATACCTCCAAAAGGCTGTTTGTCTATGGACCGCCAGGCACTGGGAAAACACTCTTGGCACGAGCTGT
TGCCAGCCAGCTGGACTGCAACTTCTAAAGGTTGTATCTAGTTCTATTGTAGACAAGTACATTTGGTGAA
AGTGCTCGTTTGATTAGAGAAATGTTAATTATGCCAGGGACCACCAGCCATGCATCATTTTTATGGATG
AAATAGATGCTATTGGTGGCCGTCGGTTTTCTGAGGGAACATCAGCTGACAGAGAGATTCAGAGAAGCTTT
AATGGAGTTACTAAATCAAATGGATGGATTTGATACTCTGCATAGAGTTAAAATGATCATGGCTACAAAC
AGACCAGATACACTGGATCCTGCTTTGCTGCGCCAGGAAGATTAGATAGAAAAATACATATCGATTTAC
CAAATGAACAAGCAAGATTAGATATATTGAAAATCCACGCAGGACCTATTACAAAGCATGGTGAAATAGA
TTATGAAGCAATTGTAAGCTTTTCAGATGGCTTTAATGGAGCAGACCTGAGAAATGTTTGTACTGAAGCA
GGTATGTTGCAATTCGTGCCGATCATGATTTGTAGTTCAGGAAGACTTCATGAAAGCAGTCAGGAAAG
TGGCTGACTCCAAGAAGCTGGAGTCCAAGCTGGACTACAAACCTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG222069 representing NM_025959
 Red=Cloning site Green=Tags(s)

MADPRDKALQDYRKKLLEHKEIDGRLKELREQLKELTKQYEKSENDLKALQSVGQIVGEVLKQLTEEKFI
 VKATNGPRYVVGCRRLDKSKLKPGRVALDMTTLTIMRYLPREVDPVYNMSHEDPGNVSYSYSEIGGLSE
 QIRELREVIELPLTNPELFRVGIIPPKGCLLYGPPGTGKTLARAVASQLDCNFLKVVSSIVDKYIGE
 SARLIREMFNYARDHQPCIIIFMDEIDAIGRRFSEGTADREIQRTLMELLNQMDGFDTLHRVKMIMATN
 RPDTLDPALLRPGRLDRKIHIDLPEQARLDILKIHAGPITKHGEIDYEAIVKLSDFNGADLRNVCTEA
 GMFAIRADHDFVVQEDFMKAVRKVADSKKLESKLDYKPV

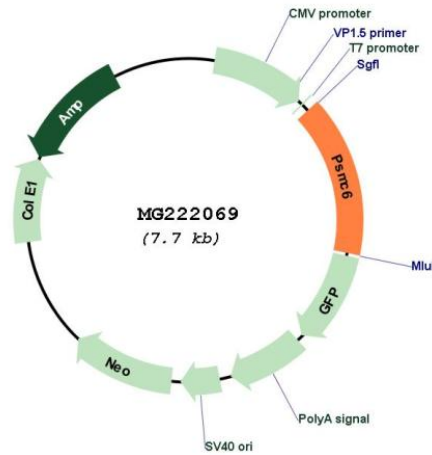
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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).
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_025959.3 , NP_080235.2
RefSeq Size:	1564 bp
RefSeq ORF:	1170 bp
Locus ID:	67089
UniProt ID:	P62334
Cytogenetics:	14 C1
Gene Summary:	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]