

Product datasheet for **MG207012**

Psmc1 (NM_008947) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Psmc1 (NM_008947) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Psmc1
Synonyms: AI325227; P26s4; rpt2; Rpt2/S4; S4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG207012 representing NM_008947
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGTCAAAGCCAGAGTGGTGGCCATGGTCTGGGGTGGCAAGAAGGATGACAAGGACAAGAAAAAGA
 AATACGAACCTCTGTCCCACTAGAGTGGGAAAAAGAAGAAAAACAAGGGACCAGATGCTGCCAG
 CAAACTGCCACTGGTAACACCTCACACCCAGTCCCGCTGAAATTACTGAAGCTAGAGAGAATAAAGAC
 TATCTTCTCATGGAGGAGGAATTCATTAGAAACCAGGAACAGATGAAACCATTAGAAGAAAAGCAAGAGG
 AGGAAAGATCAAAGTGGATGATCTCAGGGGACCCCATGTCTGTAGGAACCTTGAAGAGATCATTGA
 TGATAATCACGCCATTGTGTCCACATCTGTGGGCTCAGAACACTACGTCAGCATCCTGTCGTTTGTAGAC
 AAGGATCTGCTGGAACCAAGGCTGCTCCGCTCTGCTCAACCACAAGGTGCATGCTGTGATAGGGGTGCTAA
 TGGATGACACGGATCCCCTGGTCCAGTGTGAAGGTGGAAAAGGCCCCAGGAGACCTACGCAGATAT
 TGGGGGACTGGACAACCAGATCCAAGAAATTAAGGAGTCTGTGGAGCTCCCGCTTACCCATCCTGAGTAT
 TACGAGGAGATGGGGATAAAGCCCCCTAAGGGGTCATTCTACGGTCCGCCAGGAACAGGTAATACTC
 TATTGGCCAAAGCAGTAGCGAACCAAGTTCAGCCACTTCTTGGCAGTGGTGGCTCAGAGCTTATCCA
 GAAGTACCTAGGTGACGGGCCAAACTTGTCCGGGAGCTTCCGGGTCGCTGAGGAGCATGCGCCGTCC
 ATCGTGTTCATTGATGAGATCGACGCCATTGGGACCAAAAGATATGATTCAAATCTGGAGGTGAGAGAG
 AAATTCAGCGAACAATGTTGGAACCTGTTGAACCAAGTGGATGGATTTGATTTCGAGGGGAGATGTAAGT
 TATCATGGCCACAACCGAATAGAACTTTGGATCCAGCACTTATCAGGCCAGGCCGATTGACAGAAAAG
 ATCGAGTTCCTCCGATGAGAAGACCAAGAAGCGTATCTTCCAGATTACACCAGCAGGATGACAC
 TGGCTGATGATGTAACCTTGGATGACTTGTATGCAAGGATGACCTCTCTGGGGCCGACATCAAGGC
 AATCTGTACAGAAGCTGGCTTGTGGCCTTGGGGAACGCAGAATGAAAGTAACAATGAAGACTTCAA
 AAATCTAAAGAGAATGTTCTTTATAAAAAACAAGAAGGCCACCCCTGAGGGGCTCTATCTC

ACCGTACGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG207012 representing NM_008947
 Red=Cloning site Green=Tags(s)

MGQSQSGHGHPGGGKKDDKDKKKKYEPVPTRVGKKKKTKGPDAAASKLPLVTPHTQCRLKLLKLERIKD
 YLLMEEEFIRNQEOMKPLEEKQEEERSKVDDLRTGTPMSVGTLEEIIDDNHAIVSTSVGSEHYVSILSFVD
 KDLLLEPGCSVLLNHKVVHAVIGVLMDDTDPLVTVMKVEKAPQETADIGGLDNQIQEIKESVELPLTHPEY
 YEEMGIKPPKGVILYGPPGTGKTLAKAVANQTSATFLRVVGSSELIQKYLGDGPKLVRELFRTVAEEHAPS
 IVFIDEIDAIGTKRYDSNSGGEREIQRMLELLNQLDGFDSRGDVKVMATNRIETLDPALIRPGRIDRK
 IEFPLPDEKTKRIFQIHTSRMTLADDVTLDDLIMAKDDLSGADIKAICTEAGLMALRERMKVNTNEDFK
 KSKENVLYKKQEGTPEGLYL

TRTRPLE - GFP Tag - V

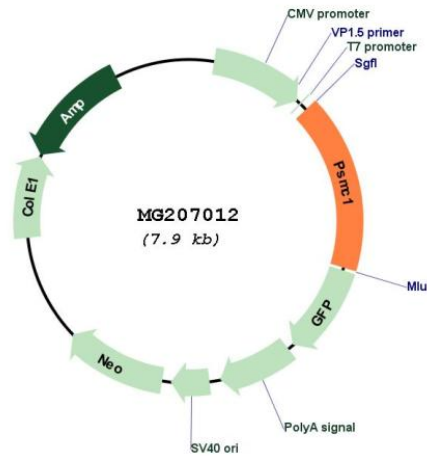
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_008947

ORF Size:	1320 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_008947.3 , NP_032973.1
RefSeq Size:	1503 bp
RefSeq ORF:	1323 bp
Locus ID:	19179
UniProt ID:	P62192
Cytogenetics:	12 50.43 cM
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. PSMC1 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]