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Product datasheet for MG207052

Psmc3 (NM_008948) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Psmc3 (NM_008948) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Psmc3
Synonyms:	TBP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG207052 representing NM_008948
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGGAAATGAATCTGCTGCCGACGCCCGAGAGTCCAGTGACTCGGCAGGAGAAGATGGCGACCGTGT
GGGATGAAGCTGAGCAAGATGGCATTGGGGAGGAGGTGCTCAAGATGTCCACGGAAGAGATTGTCCAGCG
CACACGGCTGTTAGACAGCGAGATCAAGATCATGAAGAGTGAAGTATTGCGAGTCACCCATGAACTCCAA
GCCATGAAAGACAAAATCAAAGAGAACAGTGAGAAAATCAAAGTGAACAAAACCCTGCCGTACCTTGTCT
CCAATGTCATCGAGTTGCTGGACGTTGACCCCAATGACCAGGAGGAGGATGGTGCCAACATTGACCTGGA
CTCTCAGAGGAAGGGCAAGTGTGCGGTGATCAAAACTTCTACCCGACAGACATACTTCCTGCCAGTGATT
GGGTTGGTGGATGCAGAAAAGCTGAAGCCAGGAGACCTGGTGGGTGTGAACAAAGACTCCTATCTGATCC
TGGAGACCCTGCCCACTGAATATGACTCTCGGGTGAAGGCCATGGAGGTGGACGAGCGGCCCACGGAGCA
ATACAGTGACATCGGGGGCCTGGACAAGCAGATCCAGGAGCTGGTGGAAGCCATTGTCTTGCCTATGAAC
CACAAAGAGAAGTTTGAGAACTTGGGTATCCAGCCCCCAAAAGGAGTGCTGATGTATGGGCCGCCTGGAA
CAGGGAAGACTCTGCTTGCCCGAGCCTGTGCTGCTCAGACCAAGGCCACCTTCTTGAAGCTGGCAGGCCC
TCAGCTGGTACAGATGTTTATTGGAGATGGCGCCAAGCTGGTCCGTGATGCTTTTGCCCTGGCCAAGGAG
AAGGCACCATCTATTATTTTCATAGACGAATTGGATGCCATTGGTACCAAACGCTTCGACAGTGAAAAGG
CAGGAGACCGAGAGGTGCAGAGGACCATGCTGGAGCTACTGAACCAGCTGGACGGCTTTCAGCCCAACAC
TCAAGTGAAGGTAATTGCAGCCACTAACAGGGTGGACATCCTGGATCCAGCCCTGCTGCGCTCAGGCCGC
CTAGACCGCAAGATTGAGTTTCCAATGCCCAACGAGGAGGCCAGAGCCAGAATCATGCAGATCCACTCAC
GGAAGATGAATGTCAGTCCTGATGTGAACTATGAAGAGCTGGCTCGGTGCACTGATGACTTCAATGGAGC
CCAGTGCAAGGCCGTGTGTGTGGAGGCGGGTATGATCGCATTGCGCAGGGGAGCCACGGAACTCACTCAT
GAGGACTACATGGAGGGCATCCTGGAGGTTCAGGCCAAGAAGAAAGCCAACCTACAATACTATGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

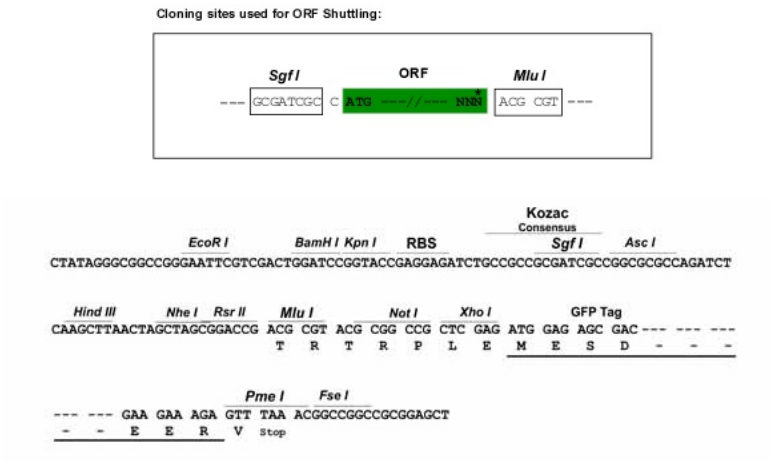
>MG207052 representing NM_008948
Red=Cloning site Green=Tags(s)

MQEMNLLPTPESPVTRQEKMATVWDEAEQDGIGEEVLKMSTEEIVQRTRLLDSEIKIMKSEVLRVTHELQ
AMKDKIKENSEKIKVNKTLPYLVSNVIELLDVDPNDQEEDGANIDLDSQRKGKCAVIKTSTRQTYFLPVI
GLVDAEKLKPGDLVGVNKDSYLILETLPTEYDSRVKAMEVDERPTEQYSDIGGLDKQIQELVEAIVLPMN
HKEKFENLGIQPPKGVLMYGPPGTGKTLLARACAAQTKATFLKLAGPQLVQMFIGDGAKLVRDAFALAKE
KAPSIIFIDELDAIGTKRFDSEKAGDREVQRTMLELLNQLDGFQPNTQVKVIAATNRVDILDPALLRSGR
LDRKIEFPMPNEEARARIMQIHSRKMNVSPDVNYEELARCTDDFNGAQCKAVCVEAGMIALRRGATELTH
EDYMEGILEVQAKKKANLQYYA

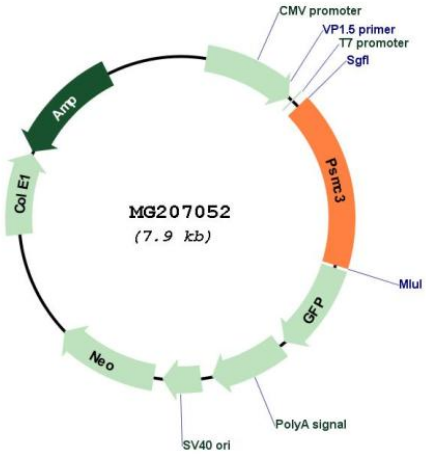
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_008948

ORF Size:	1326 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:	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_008948.2
RefSeq Size:	1569 bp
RefSeq ORF:	1329 bp
Locus ID:	19182
UniProt ID:	O88685
Cytogenetics:	2 50.44 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. PSMC3 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]