

Product datasheet for **MR207052**

Psmc3 (NM_008948) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Psmc3 (NM_008948) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Psmc3
Synonyms:	TBP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207052 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCAGGAAATGAATCTGCTGCCGACGCCCGAGAGTCCAGTGACTCGGCAGGAGAAGATGGCGACCGTGT
 GGGATGAAGCTGAGCAAGATGGCATTGGGGAGGAGGTGCTCAAGATGTCCACGGAAGAGATTGTCCAGCG
 CACACGGCTGTTAGACAGCGAGATCAAGATCATGAAGAGTGAAGTATTGCGAGTACCCATGAACCTCAA
 GCCATGAAAGACAAAATCAAAGAGAACAGTGAGAAAATCAAAGTGAACAAAACCTGCCGTACCTTGTCT
 CCAATGTCATCGAGTTGCTGGACGTTGACCCCAATGACCAGGAGGAGGATGGTGCCAACATTGACCTGGA
 CTCTCAGAGGAAGGGCAAGTGTGCGGTGATCAAACTTCTACCCGACAGACATACTTCTGCCAGTGATT
 GGGTTGGTGGATGCAGAAAAGCTGAAGCCAGGAGACCTGGTGGGTGTGAACAAAGACTCCTATCTGATCC
 TGGAGACCCTGCCACTGAATATGACTCTCGGGTGAAGGCCATGGAGGTGGACGAGCGGCCACGGAGCA
 ATACAGTGACATCGGGGCTGGACAAGCAGATCCAGGAGCTGGTGAAGCCATTGTCTTGCCATGAAC
 CACAAAGAGAAGTTTGAGAACTTGGGTATCCAGCCCCAAAAGGAGTGTGATGTATGGCCGCCTGGAA
 CAGGGAAGACTCTGCTTGCCCGAGCCTGTGCTGCTCAGACCAAGGCCACCTTCTTGAAGCTGGCAGGCC
 TCAGCTGGTACAGATGTTTATTGGAGATGGCGCCAAGCTGGTCCGTGATGCTTTTGCCCTGGCCAAGGAG
 AAGGCACCATCTATTATTTTCATAGACGAATTGGATGCCATTGGTACCAACGCTTCGACAGTGAAGG
 CAGGAGACCGAGAGGTGCAGAGGACCATGCTGGAGCTACTGAACCAGCTGGACGGCTTTCAGCCCAACAC
 TCAAGTGAAGGTAATTGCAGCCACTAACAGGGTGGACATCCTGGATCCAGCCCTGCTGCGCTCAGGCCG
 CTAGACCGCAAGATTGAGTTTCCAATGCCAACGAGGAGCCAGAGCCAGAATCATGCAGATCCACTCAC
 CGAAGATGAATGTCAGTCTGATGTGAACATGAAGAGCTGGCTCGGTGCACTGATGACTTCAATGGAGC
 CCAGTGAAGGCCGTGTGTGGAGGCGGGTATGATCGCATTGCCAGGGGAGCCACGGAACCTCACTCAT
 GAGGACTACATGGAGGGATCCTGGAGGTTTAGGCCAAGAAGAAAGCCAACCTACAATACTATGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207052 protein sequence
 Red=Cloning site Green=Tags(s)

MQEMNLLPTPESPVTRQEKMATVWDEAEQDGIGEEVLKMSTEEIVQRTRLLDSEIKIMKSEVLRVTHELQ
 AMKDKIKENSEKIKVNKTLPYLVSNIELLDVDPNQEEEDGANIDLDSQRKGCVAIKTSTRQTYFLPVI
 GLVDAEKLKPGDLVGVNKDSYLILETLPTHEYDSRVKAMEVDERPTEQYSDIGGLDKQIQELVEAIVLPMN
 HKEKFENLGIQPPKGVLMYPPGTGKTLARACAAQTKATFLKLAGPQLVQMFIGDGAKLVRDAFALAKE
 KAPSIIFIDELDAIGTKRFDSEKAGDREVQRTMLELLNQLDGFQPNQVQVIAATNRVDILDPALLRSGR
 LDRKIEFPMPNEEARARIMQIHSRKMNVSPDVNYEELARCTDDFNGAQCKAVCVVEAGMIALRRGATELTH
 EDYMEGILEVQAKKANLQYYA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_008948

ORF Size: 1329 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: 1651 bp

RefSeq ORF: 1329 bp

Locus ID: 19182

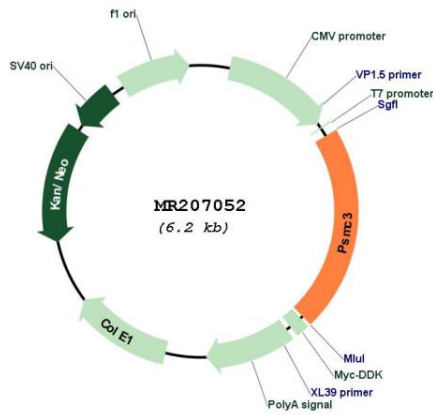
UniProt ID: [O88685](#)

Cytogenetics: 2 50.44 cM

MW: 49.5 kDa

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]

Product images:



Circular map for MR207052