

Product datasheet for **MC200485**

Psmc2 (BC005462) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Psmc2 (BC005462) Mouse Untagged Clone
Tag: Tag Free
Symbol: Psmc2
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >BC005462

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GAAACGTGCTGTGTAATCACCGAGACCGGAGGCACTTGCGGCTTCTAAAATGCCGGATTACCTAGGTGC
GGACCAGCGGAAAACCAAGAGGAGGAGAAGGACGACAAGCCCATCCGAGCTCTGGATGAAGGGGATATT
GCCTTGCTGAAAACTTACGGCCAGAGTACTTATTCAAGGCAGATCAAGCAGGTTGAAGATGACATTCAAC
AACTTCTCAAAAAAATTAATGAGCTCACTGGTATTAAGAGTCTGACACTGGGTTGGCACCTCCGGCCCT
CTGGGATTTGGTGCAGACAAACAACTTCAGAGTGAACAGCCATTACAGGTGGCAAGATGTACGAAG
ATAATCAACGCTGATTCGGAGGACCCAAATACATCATCAATGTGAAGCAGTTTGCCTCAAGTTCTGGTGG
ATCTCAGTGATCAGGTGGCACCCACTGACATTGAAGAAGGGATGAGAGTCGGTGTGGACAGAAATAATA
CCAAATTCACATTCCACTACCTCCTAAGATCGACCCAACAGTTACCATGATGCAGGTGGAGGAAAAACCC
GACGTACATACAGTGATGTTGGTGGTTGAAGGAACAGATTGAGAAATTGCGAGAAGTAGTTGAAACCC
CTCTGCTCCATCCAGAGAGGTTTGTAACTTGGAAATCGAGCCTCCAAAGGGTGTACTGCTGTTTGGGCC
ACCAGGCACAGGCAAGACACTCTGTGCTAGGGCAGTTGCCAATCGGACTGATGCTTGCTTATTGAGTT
ATTGGGTCTGAGCTCGTACAGAAATACGTCGGCGAGGGAGCTCGAATGGTTCGTGAGCTTTTTGAAATGG
CCAGGACAAAAAAGCCTGCCTTATTTCTTTGATGAAATTGATGCCATTGGAGGGGCTCGGTTTGACGA
TGGTGTGGGGGTGACAATGAAGTGCAGAGAACCATGCTGGAGCTCATCAATCAGCTGGATGGCTTTGAT
CCTCGCGGCAACATCAAGGTGCTCATGGCCACTAACCGCCCTGACACTCTGGACCCAGCGCTCATGAGAC
CGGGGAGGCTGGACAGGAAGATTGAGTTCAGCTTACCTGACTTAGAGGGTGAACGCACATCTTTAAGAT
TCATGCTCGCTCAATGAGTGTGAAAGAGACATTCGATTTGAGCTGTTGGCCCGCTGTGCCAACAGT
ACTGGAGCGGAGATTAGAAGTGTGTCACAGAAGCTGGTATGTTTGAATCCGAGCACGGAGAAAAATTG
CTACAGAGAAGGACTTCTTAGAAGCTGTAATAAGGTCATCAAGTCTTACGCCAAATTCAGCGCTACTCC
CCGCTACATGACATAAATTGAGCCCCAGGGCTCTGAGTAAAAGAACTTCTGTGCTTTTGTAACTTGTT
GCCACCGCACAAAAATAAAGATTTAAAAACTGAAAAAAAAAAAAAAAA
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Restriction Sites: RsrII-NotI
ACCN: BC005462
Insert Size: 1302 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>BC005462</u> , <u>AAH05462</u>
RefSeq Size:	1448 bp
RefSeq ORF:	1302 bp
Locus ID:	19181
Cytogenetics:	5 9.97 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. PSMC2 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]