

Product datasheet for MC209245

Psmc5 (NM_008950) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Psmc5 (NM_008950) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Psmc5
Synonyms:	mSUG1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC209245 representing NM_008950 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGCTTGATGGCCAGAGCAGATGGAAGTGAAGAGGGGAAGGCAGGCAGTGGACTCCGTCAATATT
ATCTGTCCAAGATTGAAGAACTCCAGTTGATTGTAATGATAAGAGCCAGAATCTCCGTAGACTGCAGGC
ACAGAGGAATGAGCTGAATGCAAAAGTTCGCCTGTTGCGGGAGGAGCTGCAGCTGTTGCAGGAACAGGGC
TCCTACGTTGGAGAAGTCGTGAGGGCCATGGATAAGAAAAAGTATTGGTCAAGGTCCATCCTGAGGGCA
AATTTGTTGTTGATGTGGACAAGAACATTGATATCAACGATGTGACGCCCAATTGTCGGGTGCTCTAAG
AAATGACAGCTACACTCTGCATAAGATCTTACCTAACAAAGGTGGACCTTTGGTGTCACTAATGATGGTG
GAGAAGGTGCCAGACTCAACCTACGAGATGATTGGCGCCTGGACAAGCAGATCAAGGAGATTAAGAAG
TGATCGAGCTGCCCGTGAAGCACCCCGAGCTCTTTGAAGCACTGGGCATCGCACAGCCAAAGGGAGTCTT
GCTCTACGGACCCCGAGGCACTGGGAAGACATTGTTGGCCCGCTGTGGCTCATCATACAGACTGTACC
TTTATTCGTGTCTCTGGCTCTGAACTGGTACAGAAATTCATCGGGGAAGGGCAAGAATGGTGAGGGAGC
TGTTTGCATGGCCGAGAACATGCTCCATCCATCATCTTCATGGACGAGATTGACTCTATTGGCTCCTC
ACGGCTGGAGGGGGCTCTGGAGGCGACAGTGAGGTACAGCGCACGATGCTGGAAGTCTCAATCAGCTG
GATGGCTTTGAGGCCACCAAGAATATCAAGTTATCATGGCTACTAATAGGATTGATATCCTGGACTCTG
CCCTGCTTCGCTCGGGAGGATTGACAGAAAAATTGAATCCCACCCCAACGAGGAGGCCCGGCTGGA
CATTTTGAATACTCACTCTCGAAAAATGAACCTTGACCAGGGGGATCAACCTGAGGAAAAATTGCTGAGTTG
ATGCCGGGAGCTTCAGGGGCTGAAGTGAAGGTGTGTGCACAGAAGCTGGCATGTACGCCCTGCGGGAAAC
GGCGTGTCCACGTCCTCAGGAGGACTTTGAGATGGCAGTAGCTAAGTTCATGCAAAAGGATAGTGAGAA
AAACATGTCCATCAAGAAGCTATGGAAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_008950
Insert Size:	1221 bp
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:	NM_008950.1 , NP_032976.1
RefSeq Size:	1277 bp
RefSeq ORF:	1221 bp
Locus ID:	19184
UniProt ID:	P62196
Cytogenetics:	11 E1
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. PSMC5 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]