

Product datasheet for MR205252

Psmc5 (BC030840) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Psmc5 (BC030840) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Psmc5
Synonyms:	mSUG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205252 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCTTGATGGGCCAGAGCAGATGGAAGAGGGGAAGGCAGGCAGTGGACTCCGTCAATATT
ATCTGTCCAAGATTGAAGAACTCCAGTTGATTGTAATGATAAGAGCCAGAATCTCCGTAGACTGCAGGC
ACAGAGGAATGAGCTGAATGCAAAGTTCGCCTGTTGCGGGAGGAGCTGCAGCTGTTGCAGGAACAGGGC
TCCTACGTTGGAGAAGTCGTGAGGGCCATGGATAAAGAAAAAGTATTGGTCAAGTCCATCTGAGGGCA
AATTTGTTGTTGATGTGGACAAGAACATTGATATCAACGATGTGACGCCAATTGTCGGGTCTGCTAAG
AAATGACAGCTACACTCTGCATAAGATCTTACCTAACAAAGGTGGACCCTTTGGTGTCACTAATGATGGTG
GAGAAGGTGCCAGACTCAACCTACGAGATGATTGGCGGCCTGGACAAGCAGATCAAGGAGATTAAGAAG
TGATCGAGCTGCCCGTGAAGCACCCGAGCTCTTTGAAGCACTGGGCATCGCACAGCCAAAGGGAGTCTT
GCTCTACGGACCCCGAGGCACTGGGAAGACATTGTTGGCCCGCTGTGGCTCATATACAGACTGTACC
TTTATTCGTGCTCTGGCTCTGAACTGGTACAGAAATTCATCGGGGAAGGGGCAAGAATGGTGAGGGAGC
TGTTTGCATGGCCCGAGAACAATGCTCCATCCATCATCTTCATGGACGAGATTGACTCTATTGGCTCCTC
ACGGCTGGAGGGGGCTCTGGAGGCGACAGTGAAGTACAGCGCACGATGCTGAACTGCTCAATCAGCTG
GATGGCTTTGAGGCCACCAAGAATATCAAGGTTATCATGGCTACTAATAGGATTGATATCCTGGACTCG
CCCTGCTTCGTCCTGGGAGGATTGACAGAAAAATTGAATTCACCCCAACGAGGAGGCTGTGCTGG
AGGTGCCTGGAGAAGCTCTGGCTATGGAGACAGTGCAGGGCTTAGGGCTTTCTTCTTATCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205252 protein sequence
Red=Cloning site Green=Tags(s)

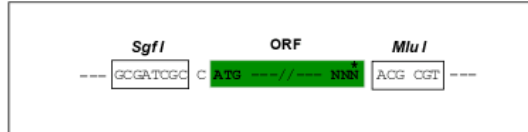
MALDGPEQMELEEGKAGSGLRQYYL SKIEELQLIVNDKSQNLRRLLQAQRNELNAKVRLREELQLLQEQQ
 SYVGEVVRAMDKKKVLVKVHPEGKVVVDVNDKINDVTPNCRVALRNDSYTLHKILPNKVDPLVSLMMV
 EKVPDSTYEMIGGLDKQIKEIKEVIELPVKHPELFEALGIAQPKGVLLYGPPGTGKTLARAVAHHTDCT
 FIRVSGSELVQKFIGEGARMVRELFVMAREHAPSIIFMDEIDSIGSSRLEGGSGGDSEVQRTMLELLNQL
 DGFEATKNIKVIMATNRIDILDSALLRPGRIDRKIEFPPPNEEVCAGGAWRSSGYGDSAGLRAFFSYP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC030840

ORF Size: 1044 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: [BC030840](#), [AAH30840](#)

RefSeq Size: 1415 bp

RefSeq ORF: 1046 bp

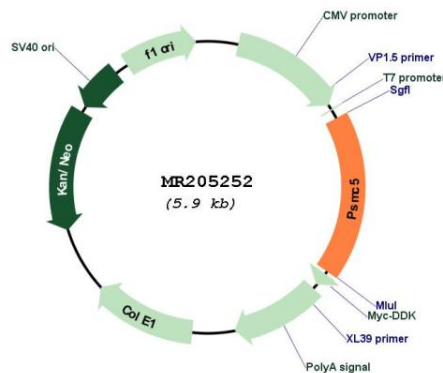
Locus ID: 19184

Cytogenetics: 11 E1

MW: 38.8 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. 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]

Product images:



Circular map for MR205252