

Product datasheet for MR206618

Psmc4 (NM_011874) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Psmc4 (NM_011874) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Psmc4
Synonyms:	CIP21; MIP224
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206618 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGAGATAGGCATTTTGGTGGAAAAGATTCCAGGATGAGATTCCAGCACTGTCCGTGTCTCGGCCG
AGACCGGCTGTCTTTCTGGACCCGAACCTGAAGACCTGGAGGACCTGTACAGCCGCTACAAGAAGCT
GCAGCAGGAGCTGGAGTCTCTGGAGGTGCAGGAGGAGTATATCAAGGACGAGCAGAAGAACCTGAAGAAG
GAATTCCTCCACGCCAGGAGGAGTGAAGCGGATCCAGAGCATCCCCTGGTTCATCGGTGATTTCTTGG
AAGCTGTGGATCAGAACACAGCCATCGTGGGCTCCACCACAGGCTCTAACTATTATGTGCGCATCCTGAG
TACCATCGACCGGAGCTGCTCAAGCCCAACGCCCTCGGTGGCCCTGCACAAGCACAGCAATGCCCTGGT
GACGTGCTGCCTCCCGAGGCCGACAGCAGCATCATGATGCTCACCTCAGACCAGAAGCCAGATGTGATGT
ATGCCGATATTGGAGGCATGGACATCCAGAAGCAGGAGGTGAGGGAGGCTGTGGAACCTCCCGCTTACACA
CTTCGAGCTGTACAAGCAGATTGGCATCGATCCTCCCGAGGTGTCTCATGTATGGCCCTCCTGGCTGT
GGAAAGACAATGTTAGCAAAGGCTGTGGCACATCACACGACAGCTGCATTTATCCGTGTGGTGGGCTCGG
AGTTTGTTCAGAAGTACCTGGGTGAGGGCCCCGGATGGTCCGGGATGTGTTCCGCTAGCTAAGGAGAA
TGCACCTGCCATCATCTCATAGATGAAATTGATGCCATTGCCACCAAGAGATTTCGATGCCAGACAGGA
GCTGACAGGGAGGTTTCAGAGGATCCTGCTGGAGCTACTGAATCAAATGGATGGATTTGACCAGAACGTCA
ATGTGAAGGTAATCATGGCCACAACAGAGCAGACACCTTGGATCCAGCTCTACTGCGGCCAGGACGCCCT
GGACCGAAAAATTGAATTCCTCCTGACCGTCCGACAGGAGGTTGATTTTCTCCACCATCACCAGC
AAAATGAACCTCTCTGAGGAGTCCGACCTGGAAGACTATGTGGCCGCTCCAGATAAGATTTTCAGGAGCCG
ATATCAACTCCATCTGTGAGGAGTGAATGTTGGCTGTCCGTGAGAACCCTACATTGCTGCTGGCCAA
GGACTTCGAGAAAGCATAACAAGACCGTATCAAGAAAGATGAACAGGAACATGAATTTTACAAG

ACGGTACGGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206618 protein sequence
 Red=Cloning site Green=Tags(s)

MEEIGILVEKIQDEIPALSVSRPQTGLSFLGPEPELEDLYSRYKKLQQELEFLEVQEEYIKDEQKLNKK
 EFLHAQEEVKRIQSIPLVIGQFLEAVDQNTAIVGSTTGSNYVVRILSTIDRELLKPNASVALHKHSNALV
 DVLPPPEADSSIMMLTSDQKPDVMIYADIGGMDIQKQEVREAVELPLTHFELYKQIGIDPPRGVLMYGPPGC
 GKTMLAKAVAHHTTAAFIRVVGSEFVQKYLGEPRMVRDVFRLAKENAPAIIFIDEIDAIAIKRFDAQTG
 ADREVQRILLELLNQMDGFDQNVNVKVI MATNRADTLDPALLRPGRDRKIEFPLPDRRQKRLIFSTITS
 KMNLSEEVLEDYVARPDKISGADINSICQESGMLAVRENRYIVLAKDFEKAYKTVIKKDEQEHEFYK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_011874

ORF Size: 1257 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_011874.1](#), [NM_011874.2](#), [NP_036004.2](#)

RefSeq Size: 1436 bp

RefSeq ORF: 1257 bp

Locus ID: 23996

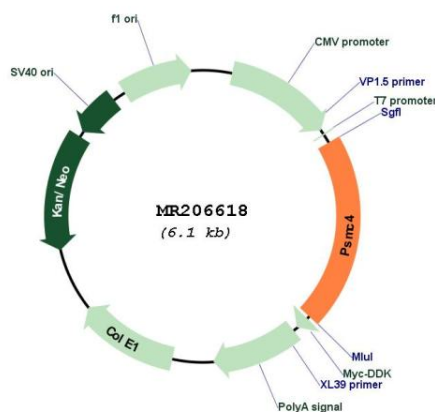
UniProt ID: [P54775](#)

Cytogenetics: 7 16.11 cM

MW: 47.4 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. PSMC4 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 MR206618