

## Product datasheet for MR222032

### Psm4 (NM\_008951) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Psm4 (NM\_008951) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Psm4  
**Synonyms:** Af1; angiocidin; Mcb1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR222032 representing NM\_008951  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGTGTGGAGAGCACTATGGTTTGTGTGGACAACAGTGAGTACATGCGGAACGGAGACTTCCTCCCA  
 CCCGGTGCAGGCCAGCAGGATGCCGTCAACATTGTATGTCACCTCAAAGACCCGAAGCAACCCTGAGAA  
 TAACGTGGCCTGATCACACTGGCCAATGACTGTGAGGTGCTGACCACACTACCCCGGACTGGCCGT  
 ATCCTCTCCAAGCTCCACTGTCCAACCCAAAGCAAGATCACCTTCTGCACTGGCATCCGCGTGGCC  
 ACTTGGCTCTGAAGCACCGGCAGGGCAAGAATCACAAGATGCGCATCATCGCCTTTGTGCGTAGCCCTGT  
 GGAGGACAACGAGAAGGATCTGGTGAAACTAGCTAAACGCCTTAAGAAAGAAAAAGTGAATGTTGACATC  
 ATTAATTTTGGGAAGAGGAGGTGAACACAGAGAAGCTGACAGCCTTTGTGAACACACTGAATGGCAAGG  
 ATGGAACCTGGTCCCCTAGTGACAGTGCCTCCTGGACCTAGCTTGGCTGATGCTCTCATCAGTTCTCC  
 TATTCTGGCTGGTGAAGGCGGTGCCATGCTGGTCTTGGTGCCAGTGACTTTGAGTTTGGAGTAGATCCC  
 AGTGCTGATCCTGAATTGGCCCTGGCCCTTCGAGTCTCTATGGAAGAGCAGCGGCAGCGGAGGAGGAA  
 AGGCACGGCGGGCCGCTGCGCCTCTGCAGCTGAGGCTGGAATTGCTACACCTGGGACTGAAGACTCGGA  
 TGACGCCCTACTGAAGATGACCATCAACCAGCAGGAGTTTGGCCGCTCCTGGGCTCCAGACCTAAGCAGC  
 ATGACTGAGGAAGAGCAGATCGCCTACGCCATGCAGATGTCCCTGCAGGGAACAGAGTTTAGCCAAGAAT  
 CGGCTGACATGGATGCCAGCTCAGCCATGGACACATCTGATCCAGTCAAGGAGGAGGATGACTATGACGT  
 CATGCAGGACCCGGAGTTCTTTCAGAGGCTCCTAGAGAACCTTCCAGGTGTGGATCCCAACAATGCAGCC  
 ATTCGAAGTGTCATGGGGCTCTGGCCTCCAGGCCACCAAGGATGGCAAGAATGACAAGAAAGAGGAAG  
 AGAAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >MR222032 representing NM\_008951  
Red=Cloning site Green=Tags(s)

MVLESTMVCDNSEYMRNGDFLPTRLQAQQDAVNI VCHSKTRSNPENNVGLITLANDCEVLTTLTPDTGR  
 ILSKLTHTVQPKGITFTCTGIRVAHLALKHRQGNHMKMRIIAFVGSVPVEDNEKDLVKLAKRLKKEKVNVDI  
 INFGEEEVNTKLTAFVNTLNGKDGTGSHLVTVPPGPSLADALISSPILAGEGGAMLGLGASDFEFGVDP  
 SADPELALALRVSMEEQRQRQEEEEARRAAAAASAAEAGIATPGTEDSDALLKMTINQQEFGRPGLPDLSS  
 MTEEEQIAYAMQMSLQGTESQESADMDASSAMDTSDPVKEEDDYDVMQDPEFLQSVLENLPGVDPNNA  
 IRSVMGALASQATKDGKNDKKEEEKK

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\_008951

**ORF Size:** 1128 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\\_008951.2](#)

**RefSeq Size:** 1252 bp

**RefSeq ORF:** 1131 bp

**Locus ID:** 19185

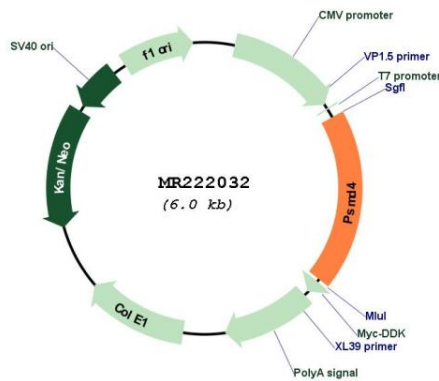
**UniProt ID:** [O35226](#)

**Cytogenetics:** 3 40.74 cM

**MW:** 41.2 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. PSMD4 acts as an ubiquitin receptor subunit through ubiquitin-interacting motifs and selects ubiquitin-conjugates for destruction. Displays a preferred selectivity for longer polyubiquitin chains.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR222032