

Product datasheet for **MG222032**

Psm4 (NM_008951) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Psm4 (NM_008951) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Psm4
Synonyms: Af1; angiocidin; Mcb1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG222032 representing NM_008951
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTGTTGGAGAGCACTATGGTTTGTGTGGACAACAGTGAGTACATGCGGAACGGAGACTTCCTCCCA
 CCCGGTGCAGGCCCAGCAGGATGCCGTCAACATTGTATGTCACCTCAAAGACCCGAAGCAACCCTGAGAA
 TAACGTGGCCTGATCACACTGGCCAATGACTGTGAGGTGCTGACCACACTACCCCGGACTGGCCGT
 ATCCTCTCCAAGCTCCACTGTCCAACCCAAAGCAAGATCACCTTCTGCACTGGCATCCGCGTGGCC
 ACTTGGCTCTGAAGCACCAGGCAAGAATCACAAGATGCGCATCATCGCCTTTGTGCGTAGCCCTGT
 GGAGGACAACGAGAAGGATCTGGTGAAACTAGCTAAACGCCTTAAGAAAGAAAAAGTGAATGTTGACATC
 ATTAATTTTGGGAAGAGGAGGTGAACACAGAGAAGCTGACAGCCTTTGTGAACACACTGAATGGCAAGG
 ATGGAACCTGGTCCCCTAGTGACAGTGCCTCCTGGACCTAGCTTGGCTGATGCTCTCATCAGTTCTCC
 TATTCTGGCTGGTGAAGGCGGTGCCATGCTGGTCTTGGTGCCAGTGACTTTGAGTTTGGAGTAGATCCC
 AGTGCTGATCCTGAATTGGCCCTGGCCCTCGAGTCTCTATGGAAGAGCAGCGGCAGCGGAGGAGGAAG
 AGGCACGGCGGCCGCTGCGCCTCTGCAGCTGAGGCTGGAATTGCTACACCTGGACTGAAGACTCGGA
 TGACGCCCTACTGAAGATGACCATCAACCAGCAGGAGTTTGGCCGCTCCTGGGCTCCAGACCTAAGCAGC
 ATGACTGAGGAAGAGCAGATCGCCTACGCCATGCAGATGTCCCTGCAGGGAACAGAGTTTAGCCAAGAAT
 CGGCTGACATGGATGCCAGCTCAGCCATGGACACATCTGATCCAGTCAAGGAGGAGGATGACTATGACGT
 CATGCAGGACCCGGAGTTCTTTCAGAGCTCCTAGAGAACCTTCCAGGTGTGGATCCCAACAATGACGCC
 ATTCGAAGTGTCATGGGGCTCTGGCCTCCAGGCCACCAAGGATGGCAAGAATGACAAGAAAGAGGAAG
 AGAAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222032 representing NM_008951
 Red=Cloning site Green=Tags(s)

MVLESTMVCVDNSEYMRNGDFLPTRLQAQQDAVNI VCHSKTRSNPENNVGLITLANDCEVLTTLTPDTGR
 ILSKLHTVQPKGITTFCTGIRVAHLALKHRQGNHMKMRIA FVGSVPVEDNEKDLVKLAKRLKKEKVNVDI
 INFGEEEVNTKELTAFVNTLNGKDGTGSHLVTVP GPSPALADALISSPILAGEGGAMLGLGASDFEFGVDP
 SADPELALALRVSMEEQRQRQEEEARAAAAASAAEAGIATPGTEDSDDLLKMTINQQEFGRPGLPDLSS
 MTEEEQIAYAMQMSLQGTESQESADMDASSAMDTSDPVKEEDDYDVMQDPEFLQSVLENLPGVDPNNA
 IRSVMGALASQATKDGKNDKKEEEKK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

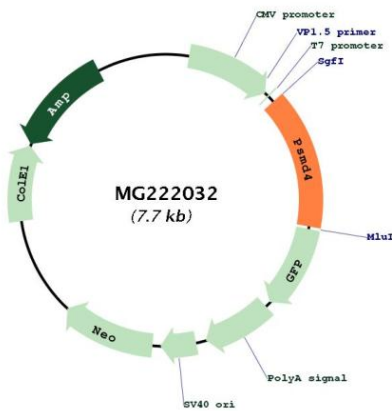
Locus ID: 19185

UniProt ID: [O35226](#)

Cytogenetics: 3 40.74 cM

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 MG222032