

Product datasheet for **MR208507**

Psm3 (NM_009439) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Psm3 (NM_009439) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Psm3
Synonyms:	AI255837; AntP91a; D11Bwg1349e; Psd3; Tstap91a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208507 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGCAGGAGGCTCGGCGCGCCGAGGCGCCGACAAGGCAAAGCCGCCCGGGAGGGGAACAAG
 AACCGCCGCCACCGCCCCCAGGATGTGGAGATGAAAGAGGAGGAGCAGCAGCTGGGAGCGCTCCACGGG
 GGAGGGAGACGGCAAGGCAGCTGCGACCCGAGCACTCCAGAGAGAGCTGGACACTGTACCTTAGAAGAC
 ATCAAAGACACGTGAGACAGCTAGAGAAGGCTGTTCCGGCAAGGAGCCTCGGTTCTGTGCTGAGGGCGC
 TGCGGATGCTGCCGTCCACGTACGCGCCCTCAACCACTATGTTCTGTACAAGGCTGTGCATGGCTTCTT
 CACCTCCAATAACGCCACTCGAGACTTCTTGTACCTTCTAGAAAGCCATGGACACAGAAGCCGAC
 CTGCAGTTTCGTCTCGCACAGGAAAAGCGGCATCAGCGCCTCTCTGCCTGAGGTGGAAGCCTACCTGC
 AGCTGCTCATGGTCATCTTCTGATGAACAGCAAGCGCTACAAAGAGGCACAGAAAATCTCTGATGACCT
 GATGCAGAAGATCAGCACTCAGAACCAGGAGCCTGGACCTCGTAGCTGCCAAGTGTACTATTATCAC
 GCCCGGTCTATGAGTTCCTGGACAAGCTGGATGTGGTGCAGCTTCTTGCATGCCCGCTCCGGACAG
 CCACCTGCGGCACGATGCTGACGGACAGGCTACCCCTTTGAACCTCTGCTTCGGAATTACCTGACTA
 CAGCTTGTATGACCAGGCTGAGAAGCTGGTATCCAAGTCTGTGTTCCCTGAGCAAGCCAACAATGAG
 TGGGCCAGGTACCTCTATTACACAGGGCGAATCAAGGCTATCCAGCTGGAGTACTCTGAAGCCGGAGAA
 CGATGACCAATGCCCTTCGAAAGGCTCCACAGCACACAGCTGTTGGCTTCAAACAGACGGTGCACAAGCT
 TCTGATCGTGGTAGACTCCTGCTGGGGAGATCCCAGACCGCTGCAGTCCGCCAGCCCTCCCTAAAG
 CGCTCCCTCAGCCCTACTTCTTCTCACCAAGCTGTTAGGACAGGAAATCTTGCCAAGTCAACCAAG
 TTCTGGATCAGTTTGGGGAGAAGTTTCAAACGGATGGGACCTACACCTGATTATCCGACTGCGACAA
 TGTGATCAAGACAGGTGTGCGCATGATCAGCCTGTCTATTCCCGGATCTCCCTGGCCGACATCGCCAG
 AAGCTGCAGCTGGATAGCCAGAAGATGCAGAGTTCATTGTCGCAAGGCCATCCGGGACGGCGTGATTG
 AGGCCAGCATCAATCACGAGAAGGGATACGTCCAATCCAAGAGATGATTGACATCTATTCCACCCGGGA
 GCCCAGCTGGCCTTCCACCAGCGCATCTCTTCTGTCTGGACATCCACAACATGTCTGTCAAGGCCATG
 CGCTTCTCCCAAATCTACAACAAGGACCTGGAGTCTGCAGAGGAGCGGCGAGAGCGGGAGCAGCAGG
 ACCTGGAGTTTGCCAAGGAGATGGCGGAGGATGACGACGACAGCTTCCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208507 protein sequence
 Red=Cloning site Green=Tags(s)

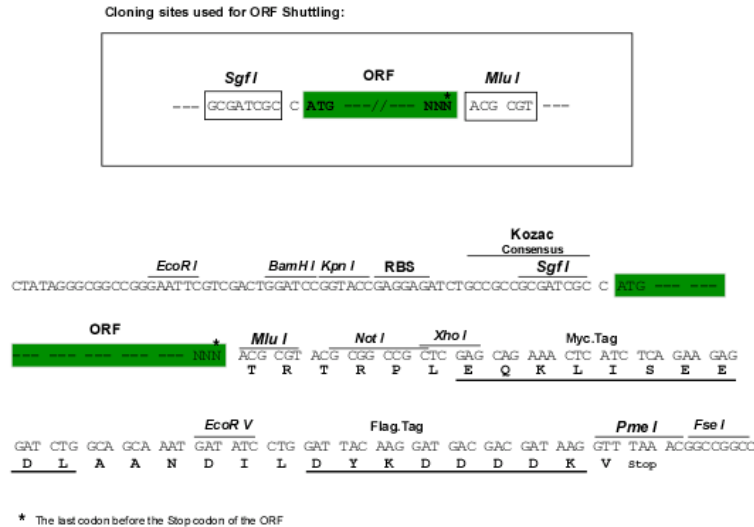
MKQEGSARRRGADKAKPPPGGEQEP PPPAPQD VEMKEEAAAGSGSTGEGDGKAAATEHSQRELDTVTLED
 IKEHVRQLEKAVSGKEPRFVLRALRMLPSTSRRLNHYVLYKAVHGFFTSNNATRD FLLPFLEPM DTEAD
 LQFRPRTGKAASAPLLPEVEAYLQLLMVIFLMNSKRYKEAQKISDDL MQKISTQNRRALDLVA AKYYYYH
 ARVYEF LDKLDVRSFLHARLRTATLRHDADGQATLLNLLRN YLHYSLYDQAEKLVSKSVFPEQANNNE
 WARYLYYTGRIKAIQLEYSEARRTMTNALRKAPQHTAVGFKQTVHKLLIVVELLLGEIPDRLQFRQPSLK
 RSLMPYFLLTQAVRTGNLAKFNQVLDQFGEKFQTDGTYTLIIRLRHNVIKTGVRMISLSYSRISLADIAQ
 KLQLDSPEDA EFIVAKAIRDGVIEASINHEKGYVQSKEMIDIYSTREPQLAFHQRI SFCLDIHNSVKAM
 RFPPKSYNKDLESAEERREREQQDLEFAKEMAEDDDDSFP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_009439

ORF Size: 1593 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_009439.1](#), [NP_033465.1](#)

RefSeq Size: 2167 bp

RefSeq ORF: 1593 bp

Locus ID: 22123

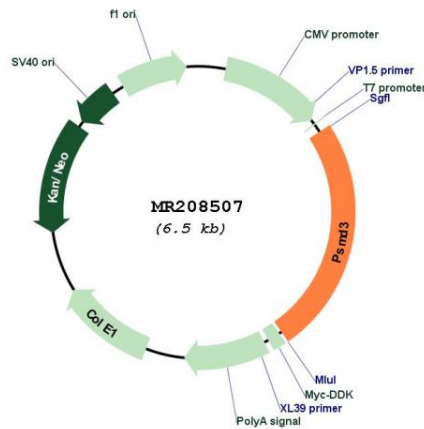
UniProt ID: [P14685](#)

Cytogenetics: 11 62.39 cM

MW: 60.7 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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208507