

Product datasheet for **MR207290**

Psmid12 (NM_025894) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Psmid12 (NM_025894) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Psmid12
Synonyms:	1500002F15Rik; AI480719; P55
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207290 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGACGGTGGCTCGGAGCGGGCCGATGGCGCATTGTGAAGATGGAAGTGGACTACAGCGCCACGG
 TGGACCAGCGCCTGCCTGAGTGCAGAGAAGCTGGCCAAGGAAGGGCGGCTTCAAGAAGTCATCGAAACCCT
 TCTCTCTCTAGAAAAGCAGACCCGGACTGCCTCTGACATGGTGTCCACGTCGCCGATCTTGGTTGCAGTA
 GTGAAAATGTGCTATGAGGCTAAAGAATGGGACTTACTTAATGAAAATATTATGCTTCTGTCAAAACGAC
 GGAGTCAGTTAAAACAAGCAGTTGCAAAAATGGTTCAGCAGTGTACTTACGTGGAGGAGATCACAGA
 CCTGCCAGTCAAGCTGCGATTGATTGATACTCTGCGGATGGTTACAGAAGGAAAGATTTATGTTGAAATT
 GAGCGTCTCGGCTGACTAAACCTTAGCAACTATTAAGAGCAAAATGGCGATGTGAAAGAGGCTGCCT
 CCATCCTTCAAGAGTTACAGGTGAAACCTATGGGTCCATGGAGAAGAAGGAGCGAGTGGAAATTCATTCT
 GGAGCAGATGAGACTCTGCCTAGCTGTGAAGGATTACATTCGCACACAGATCATTAGCAAAAAATTAAT
 ACCAAATTCCTCAAGAAGAAAACACAGAGAAGTTGAAGTTGAAGTACTATAACTTAATGATTCAGCTGG
 ATCAGCACGAGGGTCTATCTGTCCATCTGCAAACTACAGAGCCATCTATGACACTCCCTGCATTCA
 GGCAGAAAGTGACAAGTGGCAGCAGGCTCTGAAAAGTGTGTTCTCTATGTTATCCTGGCTCCTTTTGAC
 AATGAGCAATCAGATTTGGTTCACCGGATAAGCAGTGACAAGAAGCTGGAAGAAATCCCAATACAAGG
 ATCTGTGAAGCTTTTTACCACCATGGAGCTGATGCGCTGGTCCACTCTTGTGAGGACTATGGGGTGA
 GCTGCGAAAAGGCTCCTCAGAGACCCCGCGACTGACGTTTTAGCTCTACAGAAGAAGGGGAAAAGAGG
 TGGAAAGACTTGAAGAGCAGAGTGGTGGAGCACAACATCAGAATTATGGCCAAGTACTACACTCGGATAA
 CAATGAAAAGGATGGCACAACCTCTGGATCTCTGTGGATGAGTCAGAGGCTTTCTCTCGAATCTAGT
 CGTTAACCAAGACCATCTTTGCTAAAGTAGACAGGTTGGCTGGAGTCATCAACTCCAGAGACCCAAGGAT
 CCAATAATTTATTAATGACTGGTCTCAGAACTGAACTCGCTGATGTCTCTGGTTAACAAAACGACAC
 ACCTCATAGCCAAAGAGGAGATGATACATAATCTACAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207290 protein sequence
 Red=Cloning site Green=Tags(s)

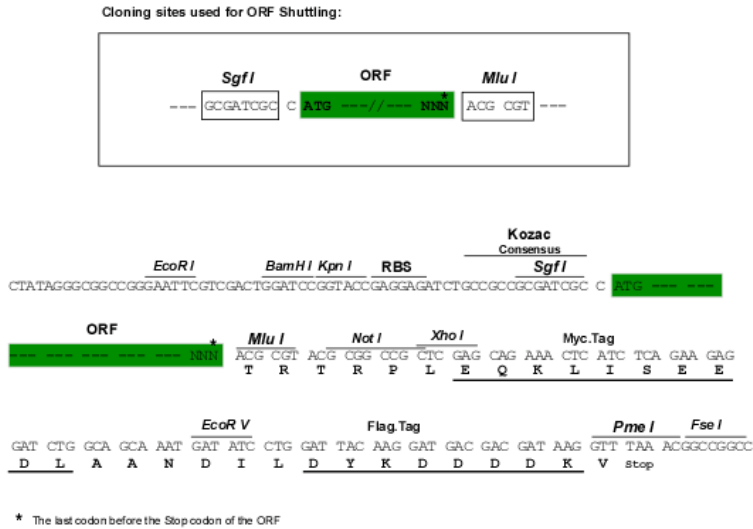
MADGGSERADGRIVKMEVDYSATVDQRLPECEKLAKEGRLQEVIETLLSLEKQTRTASDMVSTSRILVAV
 VKMCYEAKEWDLNENIMLLSKRRSQLKQAVAKMVOCCCTVVEEITDLPVKLRLIDTLRMVTEGKIYVEI
 ERARLTKTLATIKEQNGDVKEAASILQELQVETYGSMEKKERVEFILEQMRLCLAVKDYIRTQIIISKIN
 TKFFQEENTENLKLKYNNLMIQLDQHEGSYL SICKHYRAIYDTPCIQAESDKWQALKSVLYVILAPFD
 NEQSDLVHRISDDKLEEIPKYKDLLKLFITMELMRWSTLVEDYGVELRKSSETPATDVFSSTEEGEKR
 WKDLKSRVVEHNIRIMAKYYTRITMKRMAQLLDLSVDESEAFSLNVLVNKTIFAKVDRLAGVINFRPKD
 PNNLLNDWSQKLNLSLMSLVNKTTHLIAKEEMIHNLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_025894

ORF Size: 1371 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_025894.2](#)

RefSeq Size: 1723 bp

RefSeq ORF: 1371 bp

Locus ID: 66997

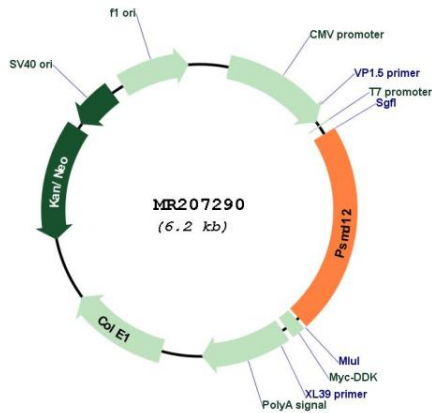
UniProt ID: [Q9D8W5](#)

Cytogenetics: 11 E1

MW: 52.9 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 MR207290