

## Product datasheet for MR227285

### Psmid7 (NM\_010817) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Psmid7 (NM_010817) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Psmid7
Synonyms:	AW107203; Mov-34; Mov34
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR227285 representing NM_010817 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCCGGAGCTGGCGGTGCAGAAGGTGGTTCACCCCTGGTCTGCTCAGTGTGGTGGATCATTTCA  
ACCGAATTGGCAAGGTTGGAAACCAGAAGCGGGTAGTTGGTGTGCTTTTGGGATCATGGCAAAGAAAGT  
ACTTGATGTATCCAACAGTTTTGCAGTACCTTTTGATGAAGATGACAAAGATGATTCTGTCTGGTTTTTA  
GACCATGATTATTTGAAAACATGTATGGGATGTTCAAGAAGGTCAATGCCAGAGAAAGGATAGTTGGGT  
GGTACCACACAGGCCCAAACTGCACAAGAATGATATCGCCATCAATGAACTCATGAAGAGATACTGCC  
CAACTCAGTATTGGTATTATCGACGTGAAGCCAAAGGACCTAGGACTTCCCACCGAAGCCTACATCTCA  
GTGGAGGAAGTTCATGACGATGGGACGCCAACGTCAAAACTTTTGAGCATGTGACTAGCGAGATTGGAG  
CAGAGGAGGCGGAGGAAGTCGGAGTGGGACACTTACTAAGAGACATCAAGGACACTACAGTGGGGACTCT  
CTCCCAGCGGATCACAACCAGGTCCATGGCTTGAAGGGACTGAACTCCAAGCTCCTGGATATCAGGAGC  
TACCTGGAGAAGGTAGCCAGCGGCAAGCTGCCATCAACCACCAGATCATATACCAGCTGACGAGCGTCT  
TCAACCTGCTGCCGACGCCAGCCTGCAGGAGTTTGTCAAGGCCTTCTACCTGAAGACCAATGACCAGAT  
GGTGGTGGTGTACCTGGCCTCGCTGATCCGCTCTGTGGTCGCCTTGATAACCTCATCAACAACAAGATT  
GCCAACCGGGATGCCGAGAAGAAGGAGGGACAGGAAAAGGAGGAGAGCAAGAAGGAGAGAAAAGACGACA  
AAGAGAAGGAGAAGAGCGACGCAGCGAAGAAAGAGAAAAAGGAGAAAAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >MR227285 representing NM\_010817  
Red=Cloning site Green=Tags(s)

MP ELAVQKVVVHPLVLLSVVDHFNRIQKVGKRVVGVLLGSWQKVLVDVNSFAVPFDEDDKDDSVWFL  
 DHDYLENMYGMFKVNRARERIVGWYHTGPKLHKNDIAINELMKRYCPNSVLVIIDVKPKDLGLPTEAYIS  
 VEEVHDDGTPTSKTFEHVTSEIGAEAEAEVGEHLLRDIKDTTVGTLISQRITNQVHGLKGLNSKLLDIRS  
 YLEKVASGKLPINHQI IYQLQDVFNLLPDA SLQEFVKAFY LKTNQMVVVYLA SLIRSVVALHNLINNKI  
 ANRDAEKKEGQEKEESKKERKDDKEKEKSDAAKKEEKKEK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9089\\_b05.zip](https://cdn.origene.com/chromatograms/mm9089_b05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_010817

**ORF Size:** 963 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\\_010817.2](#), [NP\\_034947.1](#)

**RefSeq Size:** 1616 bp

**RefSeq ORF:** 966 bp

**Locus ID:** 17463

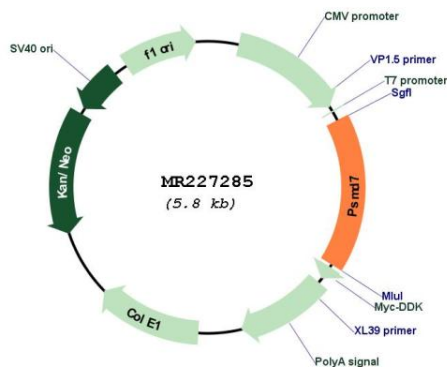
**UniProt ID:** [P26516](#)

**Cytogenetics:** 8 54.38 cM

**MW:** 36.5 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 MR227285