

## Product datasheet for **RC234112**

### PSMD6 (NM\_001271779) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PSMD6 (NM_001271779) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PSMD6
Synonyms:	p42A; p44S10; Rpn7; S10; SGA-113M
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234112 representing NM\_001271779  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCCCTGGAGAACCTGGAGGAGAGGGTCTGCCAAGAACCCGACTTGCATCGCGCAGCTGCGCT  
 TCCTGCTCAGCCTGCCGAGCACCGGAGACGCTGCCGTGCGGACGAGCTGATGGCGCGCTCCGCGA  
 TAACAACTTTTGGAACAGAATCCGGCAAGACAAACCGAGGATTGCCCTCCAGCCCTAGTAGAGGT  
 TGGCATTGCCAGGATTGGCCGTCACGCAAACTCCACCAGCATACTGTTTATGTTTTGCCAAGCCGATTA  
 TTAAGCGCCATCGCATGCCTTCTACATGGCTCCTACTATGAAGCCTTGCAAACTCCCTCGACTGGCA  
 GATAGACGTGGACCTACTCAATAAAATGAAGAAGGCAAAATGAAGATGAGTTGAAGCGTTTGGATGAGGAG  
 CTGGAAGATGCAGAGAAGAATCTAGGAGAGAGCGAAATTCGCGATGCAATGATGGCAAAGCCGAGTACC  
 TCTGCCGATAGGTGACAAAGAGGGAGCTCTGACAGCCTTCGCAAGACATATGACAAACTGTGCCCT  
 GGGTCACCGATTGGATATTGTATTCTATCTCCTTAGGATTGGCTATTTTATATGGATAATGATCTCATC  
 ACACGAAACACAGAAAAGGCCAAAAGCTTAATAGAAGAAGGAGGAGACTGGGACAGGAGAAAACCGCCTAA  
 AAGTGATCAGGGTCTTTATTGTGTGGCTATTCGTGATTTCAAACAGGCAGCTGAACTCTCCTTGACAC  
 TGTTTCAACATTTACATCCTATGAACTCATGGATTATAAAACATTTGTGACTTATACTGTCTATGTCAGT  
 ATGATTGCCTTAGAAAGACCAGATCTCAGGAAAAGGTCATTAAGGAGCAGAGATTCTTGAAGTGTTC  
 ACAGTCTTCCAGCAGTTCGGCAGTATCTGTTTTCACTCTATGAATGCCGTTACTCTGTTTTCTTCCAATC  
 ATTAGCGGTTGTGGAACAGGAAATGAAAAGGACTGGCTTTTTGCCCTCATTATCGATACTATGTAAGA  
 GAAATGAGAATTCATGCATACAGTCAGCTGCTGGAATCATATAGGTCATTAACCTTGGCTATATGGCAG  
 AAGCGTTTGGTGTGGTGTGGAATTCATTGATCAGGAACGTCCAGGTTTATTGCTGCCGGGAGACTACA  
 CTGCAAAATAGATAAAGTGAATGAAATAGTAAACCAACAGACCTGATAGCAAGAAGTGGCAGTACCAA  
 GAAACTATCAAGAAAGGAGATCTGCTACTAAACAGAGTTCAAAAACCTTCCAGAGTAATTAATATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234112 representing NM\_001271779  
 Red=Cloning site Green=Tags(s)

MPLENLEEEGLPKNPDLRIAQLRFLSLPEHRGDAAVRDELMAAVRDNNFWRIRQEQTEDCPPSSPSRG  
 WHCQDWPSRKPPSIRLCFAKPIIKRHRMPSYMAPYYEALCKSLDWQIDVDLLNKMKANEDLKRLEDEE  
 LEDAEKNLGESEIRDAMMAKAEYLCRIGDKEGALTAFRKTYDKTVALGHRLDIVFYLLRIGLFYMDNDLI  
 TRNTEKAKSLIEEGGDWDRRNLKVVYQGLYCVAIRDFKQAAELFLDTVSTFTSYELMDYKTFVTTYVYVS  
 MIALERPDLREKVIKGAIEILEVLHSLPAVRQYLFSLYECRYSVFFQSLAVVEQEMKKDWLFAPHYRYVVR  
 EMRIHAYSQLLLESYRSLTLGYMAEAFGVGVEFIDQELSRFIAAGRLHCKIDKVNEIVETNRPDSKNWQYQ  
 ETIKKGDLLLNRVQKLSRVINM

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001271779

**ORF Size:** 1326 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\\_001271779.1](#), [NP\\_001258708.1](#)

**RefSeq Size:** 1652 bp

**RefSeq ORF:** 1329 bp

**Locus ID:** 9861

**UniProt ID:** [Q15008](#)

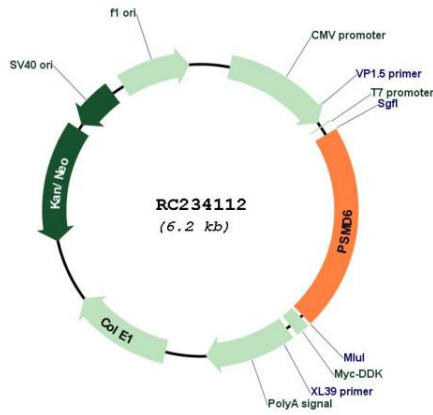
**Cytogenetics:** 3p14.1

**Protein Pathways:** Proteasome

**MW:** 52.4 kDa

**Gene Summary:** This gene encodes a member of the protease subunit S10 family. The encoded protein is a subunit of the 26S proteasome which colocalizes with DNA damage foci and is involved in the ATP-dependent degradation of ubiquitinated proteins. Alternative splicing results in multiple transcript variants [provided by RefSeq, Nov 2012]

**Product images:**



Circular map for RC234112