

## Product datasheet for **SC321629**

### PSMD5 (NM\_005047) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PSMD5 (NM_005047) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSMD5
Synonyms:	S5B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM\_005047.2  
 GATGGCAGCCCAGGCTTTGGCGCTGCTGAGAGAGGTAGCGAGGCTGGAAGCGCCGCTGGA  
 GGAGCTACGCGCGCTTCACTCCGTGCTGCAGGCAGTGCCGCTCAACGAGCTTCGCCAGCA  
 AGCGGGCGAGCTGCGCCTCGGCCGCTCTTCTCCCTGCTTAACGAGAACCATAGGGAAAA  
 GACTACTTTGTGTATCCATTCTGGAGAGATTGCTCCAAGCTATGGAACCGTTACAGT  
 GGCCCGGAACCTCAGGGTTGACCTGCAGAGGGGACTAATCACCCTGATGATTCTGTAA  
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 TGTGTTGGTCAGAGCCACCTGTATAGAAATGGTGACATCACTGGCATATACTCATCATGG  
 GCGACAATATCTTGCTCAAGAAGGAGTAATTGACCAAAATTTCTAATAAATTGTTGGGGC  
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 AGAAGGAGCCGAATGATTTCTTCTAGAGCTCATCTATAGAGGACCAGTTTTGACCAAAA



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CTTCTCCTAAGGCATTTGACTCCATCTATATTTACAAAAAGAGACTTCCTTTCCCAAGA
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TCATAAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
    
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- Restriction Sites:** Please inquire
- ACCN:** NM\_005047
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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\\_005047.2](#), [NP\\_005038.1](#)

**RefSeq Size:** 3411 bp

**RefSeq ORF:** 1515 bp

**Locus ID:** 5711

**UniProt ID:** [Q16401](#)

**Cytogenetics:** 9q33.2

**Gene Summary:** The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. This gene encodes a non-ATPase subunit of the 19S regulator base that functions as a chaperone protein during 26S proteasome assembly. [provided by RefSeq, Jul 2012]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).