

Product datasheet for **SC322282**

PSMD3 (NM_002809) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMD3 (NM_002809) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSMD3
Synonyms:	P58; RPN3; S3; TSTA2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC322282
 CCGGGAAGGGTTTGCAGCTGCTCCGTCATCGTGCGGCCCGACGCTATCTCGCGCTCGTG
 TGCAGGCCCGGCTCGGCTCCTGGTCCCCGGTGCGAGGGTTAACGCGAGGCCCGGCTCG
 GTCCCCGACTAGGCCGTGACCCCGGTGCCATGAAGCAGGAGGGCTCGGCGGGCGCCG
 CGGCGCGACAAGGCGAAACCGCCGCCGGGAGGAGAACAAGAACCCCAACCGCCG
 GGCCCCCAGGATGTGGAGATGAAAGAGGAGGCAGCGACGGGTGGCGGGTCAACGGGGGA
 GGCAGACGGCAAGACGGCGGCGCAGCGCTGAGCACTCCACGAGAGCTGGACACAGT
 CACCTTGGAGGACATCAAGGAGCACGTGAAACAGCTAGAGAAAAGCGGTTTCAGGCAAGGA
 GCCGAGATTCTGCTGCGGGCCCTGCGGATGCTGCCTTCCACATCACGCCGCTCAACCA
 CTATGTTCTGTATAAGGCTGTGCAGGGCTTCTTCACTTCAAATAATGCCACTCGAGACTT
 TTTGCTCCCTTCTGGAAGAGCCCATGGACACAGAGGCTGATTTACAGTTCCGTCCTCCG
 CACGGGAAAAGCTGCGTGAACACCTCCTGCCTGAAGTGAAGCCTATCTCAACTCCT
 CGTGGTCATCTTATGATGAACAGCAAGCGCTACAAAGAGGCACAGAAGATCTCTGATGA
 TCTGATGCAGAAGATCAGTACTCAGAACCGCCGGGCCCTAGACCTTGTAGCCGAAAGTG
 TTAATAATATCACGCCCGGTCTATGAGTTCCTGGACAAGCTGGATGTGGTGGCAGCTT
 CTTGCATGCTCGGCTCCGGACAGCTACGCTTCGGCATGACGCAGACGGGAGGCCACCT
 GTTGAACCTCCTGCTGCGGAATTACCTACACTACAGCTTGTACGACCAGGCTGAGAAGCT
 GGTGTCCAAGTCTGTGTTCCAGAGCAGGCCAACAAATGAGTGGGCCAGGTACCTCTA
 CTACACAGGGCGAATCAAAGCCATCCAGCTGGAGTACTCAGTGGCCCGGAGAACGATGAC
 CAACGCCCTTCGCAAGGCCCTCAGCACACAGCTGTGGCTTCAAACAGACGGTGCACAA
 GCTTCTCATCGTGGTGGAGCTGTGCTGGGGGAGATCCCTGACCGGCTGCAGTTCGCCA
 GCCCTCCCTCAAGCGCTACTCATGCCCTATTTCTTCTGACTCAAGCTGTCAGGACAGG
 AAACCTAGCCAAGTTCAACCAGTCTGGATCAGTTTGGGGAGAAGTTTCAAGCAGATGG
 GACCTACACCCTAATTATCCGGCTGCGGCACAACGTGATTAAGACAGGTGTACGCATGAT
 CAGCCTCTCTATTCCCGAATCTCCTTGCTGACATCGCCAGAAAGCTGCAGTTGGATAG
 CCCCAGATGCAGAGTTCATTGTTGCCAAGGCCATCCGGGATGGTGTATTGAGGCCAG
 CATCAACCACGAGAAGGGCTATGTCCAATCCAAGGAGATGATTGACATCTATTCCACCCG
 AGAGCCCCAGCTAGCCTTCCACCAGCGCATCTCCTTCTGCCTAGATATCCACAACATGTC
 TGTCAAGGCCATGAGTTTCTCCCAAATCGTACAACAAGGACTTGGAGTCTGCAGAGGA
 ACGGCGTGAGCGAGAACAGCAGGACTTGGAGTTTGCCAAGGAGATGGCAGAAGATGATGA
 TGACAGCTTCCCTTGAGCTGGGGGGCTGGGGAGGGGTAGGGGGAATGGGGACAGGCTCTT
 TCCCCCTTGGGGGTCCCCTGCCAGGGCACTGTCCCATTTCACACACAGCTCATAT
 GCTGCATTCTGTCAGGGGTGGGGGTGCTGGGAGCCAGCCACCCTGACCTCCCCAGGGC
 TCCTCCCCAGCCGGTACTTACTGTACAGCAGGCAGGAGGGTGGGAGGCAACCTCCCCG
 GGCAGGGTCTGGCCAGCAGTGTGGGAGCAGGAGGGGAAGGATAGTTCTGTGACTCCTT
 TAGGGAGTGGGGGACTAGAACTGGGATGTCTTGGCTTGTATGTTTTTGAAGCTTCGATT
 ATGATTTTTAAACAATAAAAAGTTCTCCACAGTAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_002809

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:	<ol style="list-style-type: none">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:	<u>NM_002809.2</u> , <u>NP_002800.2</u>
RefSeq Size:	2174 bp
RefSeq ORF:	1605 bp
Locus ID:	5709
UniProt ID:	<u>O43242</u>
Cytogenetics:	17q21.1
Domains:	PCI
Protein Pathways:	Proteasome
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 member of the proteasome subunit S3 family that functions as one of the non-ATPase subunits of the 19S regulator lid. Single nucleotide polymorphisms in this gene are associated with neutrophil count. [provided by RefSeq, Jul 2012]