

Product datasheet for **SC118385**

PSMD10 (NM_002814) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMD10 (NM_002814) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSMD10
Synonyms:	dj889N15.2; p28; p28(GANK)
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118385 sequence for NM_002814 edited (data generated by NextGen Sequencing) ATGGAGGGTGTGTCTAACCTAATGGTCTGCAACCTGGCCTACAGCGGAAGCTGGAA GAGTTGAAGGAGAGTATTCTGGCCGATAAATCCCTGGCTACTAGAACTGACCAGGACAGC AGAACTGCATTGCACTGGGCATGCTCAGCTGGACATACAGAAATTGTTGAATTTTTGTTG CAACTGGAGTGCCAGTGAATGATAAAGACGATGCAGTTGGTCTCCTCTTCATATTGCG GCTTCTGCTGGCCGGATGAGATTGAAAAGCCCTTCTGGGAAAAGGTGCTCAAGTGAAT GCTGTCAATCAAATGGCTGTACTCCCTTACATTATGCAGCTTCGAAAAACAGGCATGAG ATCGCTGCATGTTACTGGAAGGCGGGCTAATCCAGATGCTAAGGACCATTATGAGGCT ACAGCAATGCACCGGCAGCAGCAAGGGTAACTTGAAGATGATTCATATCCTTCTGTAC TACAAAGCATCCACAAACATCCAAGACTGAGGGTAACTCCTCTACACTTAGCCTGT GATGAGGAGAGAGTGGAAGAAGCAAACTGCTGGTGTCCCAAGGAGCAAGTATTTACATT GAGAATAAAGAAGAAAAGACACCCTGCAAGTGGCCAAAGGTGGCTGGGTTTAATACTC AAGAGAATGGTGAAGGTAA

Clone variation with respect to NM_002814.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002814 unedited
 CAGCCATATTTGTNAATACGCACTACTATAGGGNCCGGCCGCGAAATTCGGCACGAGGG
 GACAGCGAAATGGAGGGGTGTGTGTCTAACCTAATGGTCTGCAACCTGGCCTACAGCGGG
 AAGCTGGAAGAGTTGAAGGAGAGTATTCTGGCCGATAAATCCCTGGCTACTAGAAGTAC
 CAGGACAGCAGAACTGCATTGCACTGGGCATGCTCAGCTGGACATACAGAAATGTTGAA
 TTTTGTGGCAACTTGGAGTGCCAGTGAATGATAAAGACGATGCAGGTTGGTCTCCTCTT
 CATATTGCGGCTTCTGCTGGCCGGGATGAGATTGTAAGGACCCCTTCTGGGAAAAGGTGCT
 CAAGTGAATGCTGTCAATCAAAATGGCTGTACTCCCTTACATTATGCAGCTTCGAAAAAC
 AGGCATGAGATCGCTGTCTGTTACTGGAAGGCGGGGCTAATCCAGATGCTAAGGACCAT
 TATGAGGCTACAGCAATGCACCGGGCAGCAGCCAAGGGTAACTTGAAGATGATTCATATC
 CTTCTGTACTACAAAGCATCCACAAACATCCAAGACTGAGGGTAACTCCTCTACAC
 TTAGCCTGTGATGAGGAGAGAGTGAAGAAGCAAACTGCTGGTGTCCCAAGGAGCAAGT
 ATTTACATTGAGAAATAAGAAGACCAGACACCTCTGCAAGTGGCCCAAGGTGGCCCTGGT
 TTAATACTCAAGAGAATGGGAACGTTAAACAGCTTGGATTTATTCTTACTTTGTATGTT
 GTGTTGTTGGCCCAAGTGTCTACAATAATGAATTTGTGACCCAGACATCATCTATGAA
 TGATGAAGTTTCTCACCTTAAAGTCTAAAAACATGTTGACTCTTGTCTCTGCTGACTACA
 TTGTGAAGCTACACTTGGTTTCAGCCTCGAAAACCTGTGAGATTGTCTTACGGGTGAAAA
 TCTCTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002814 unedited
 GCGGCCGAATCTAGAATCGAGTTTTTTTTTTTTTTTTTTTTCTTTCAACATTTTATTTTT
 AGTTTCTGAAATACAAATCAAAATACATTTTTTGTACATGTCATTTTAAACAAGCTTGACA
 TTCTTTTCAATACAGGATGACACAAAATAGGTACTTTAAAACCTCTTTTAAAGAAAACCA
 TACATTTTATTTAGAGTAAACAACCCATCAAAAACAAATACATAGGTATATGGGCTATT
 GTTTTTAGTATTTTAGAGCACACCATCCAACCTAAAAATGTGGTCCACTAAAATATGTAA
 ATATCCCTCCTATCACAAAAATAAATAAACCTCATGGTAAAAAAAACAGAAACGTTTG
 GCGTAGGCCTGAGTGAGCTTGAAAAACAAGTTAGGATGTTTTAACTGTATGGAGGAACAT
 TACAGAATCCACATAGAAACATCTGGCAGAACAACTAGCTTGTGCTATTGGAGCTGTTC
 TGTTTCAGAGAGGGATATAAGGTACATGGGAGGGTGTGAAGACTCACACAGCCACAGA
 ATTAGTTACTCCAAATTAACCAGAATTCATATAGAAGAATATACGACACCAGTAGAACA
 ATCTCAACAGTTATTCGATGCCTGGAAAAACAAGCTGTAAGCTTCGAACAAGTAACCTCAG
 AGGAACAAGAGTCAACATGTTTATAAAGACTTTGAAGGTGAGAAAAACTCATCATTATA
 GATGATGTCTTGGCACCAATACATTAGTTGGTAGGACTGGGGACACCACCCACCTA
 AAAGTAAGATAATTCCAGCTGTTTAACTTTCCCATTTCTTTGAGGATTAACCCAGCCA
 CCTTTGCCACTGCAGGGNTGTCTTTTCTTTTATTTCCAAGGAAAACCTGCTCCTTGGG
 ACCAAAAGGTTTGTCTCTCCATCCTTCCCT

Restriction Sites:

NotI-NotI

ACCN:

NM_002814

Insert Size:

1600 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_002814.2](#), [NP_002805.1](#)

RefSeq Size: 1546 bp

RefSeq ORF: 681 bp

Locus ID: 5716

UniProt ID: [O75832](#)

Cytogenetics: Xq22.3

Domains: ANK

Gene Summary: This gene encodes a subunit of the PA700/19S complex, which is the regulatory component of the 26S proteasome. The 26S proteasome complex is required for ubiquitin-dependent protein degradation. This protein is a non-ATPase subunit that may be involved in protein-protein interactions. Aberrant expression of this gene may play a role in tumorigenesis. Two transcripts encoding different isoforms have been described. Pseudogenes have been identified on chromosomes 3 and 20.[provided by RefSeq, Mar 2011]
 Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform.