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Product datasheet for SC317607

PSMD13 (NM_175932) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMD13 (NM_175932) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSMD13
Synonyms:	HSPC027; p40.5; Rpn9; S11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC317607 representing NM_175932. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGAAGGACGTACCGGGCTTCCTACAGCAGAGCCAGAACTCCGGGCCCGGGCAGCCCGCTGTGTGGCAC CGTCTGGAGGAGCTCTACACGAAGAACTTTATGAAAACTTTATCAGTGAATTTGAACACAGGTAAAAGC CTCTCATCCGTTTTTCACTTTGAAAATGAGTGCATTGATGCTCGGCGGTGCTCAAAGGCTGGTGGCTTT TATTTCAGGGTGAACCCTTTGTCCCTCGTGGAAATCATTCTTCATGTAGTTAGACAGATGACTGATCCT AATGTGGCTCTTACTTTTCTGGAAAAGACTCGTGAGAAGGTGAAAAGTAGTGATGAGGCAGTGATCCTG TGTAAAACAGCAATTGGAGCTCTAAAATTAAACATCGGGGACCTACAGGTTACAAAGGAAACAATTGAA GATGTTGAAGAAATGCTCAACAACCTTCCTGGTGTGACATCGGTTCACAGTCGTTTCTATGATCTCTCC AGTAAATACTATCAAACAATCGGAAACCACGCGTCCTACTACAAAGATGCTCTGCGGTTTTTGGGCTGT GTTGACATCAAGGATCTACCAGTGTCTGAGCAGCAGGAGAGAGCCTTCACGCTGGGGCTAGCAGGACTT CTCGGCGAGGGAGTTTTTAACTTTGGAGAACTCCTCATGCACCCTGTGCTGGAGTCCCTGAGGAATACT GACCGGCAGTGGCTGATTGACACCCTCTATGCCTTCAACAGTGGCAACGTAGAGCGGTTCCAGACTCTG AAGACTGCCTGGGGCCAGCAGCCTGATTTAGCAGCTAATGAAGCCCAGCTTCTGAGGAAAATTCAGTTG TTGTGCCTCATGGAGATGACTTTCACACGACCTGCCAATCACAGACAACTCACTTTTGAAGAAATTGCC AAAAGTGCTAAAATCACAGTGAATGAGGTGGAGCTTCTGGTGATGAAGGCCCTTTCGGTGGGGCTGGTG AAAGGCAGTATAGACGAGGTGGACAAACGAGTCCACATGACCTGGGTGCAGCCCCGAGTGTTGGATTTG CAACAGATCAAGGGAATGAAGGACCGCCTGGAGTTCTGGTGCACGGATGTGAAGAGCATGGAGATGCTG GTGGAGCACCAGGCCCATGACATCCTCACCTAG AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGAT ATCCTGGATTACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-RsrII

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ACCN:	NM_175932
Insert Size:	1137 bp
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_175932.2
RefSeq Size:	1763 bp
RefSeq ORF:	1137 bp
Locus ID:	5719
UniProt ID:	Q9UNM6
Cytogenetics:	11p15.5
Protein Pathways:	Proteasome
MW:	42.9 kDa

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. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes a non-ATPase subunit of the 19S regulator. Two transcripts encoding different isoforms have been described. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (2) lacks an alternate segment and uses a different splice site in the 5' coding region, compared to variant 1. These differences cause a frameshift and then a restoration in the reading frame. Isoform 2 has a slightly shorter N-terminus, compared to isoform 1.