

Product datasheet for **SC320938**

26S proteasome non ATPase regulatory subunit 12 (PSMD12) (NM_002816) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	26S proteasome non ATPase regulatory subunit 12 (PSMD12) (NM_002816) Human Untagged Clone
Tag:	Tag Free
Symbol:	26S proteasome non ATPase regulatory subunit 12
Synonyms:	p55; Rpn5; STISS
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 NM_002816.3
 CGAAGCAGGGGGACAGCAAGGGACGCTCAGGCGGGGACCATGGCGGACGGCGGCTCGGAG
 CGGGCTGACGGGCGCATCGTCAAGATGGAGGTGGACTACAGCGCCACGGTGGATCAGCGC
 CTACCCGAGTGTGCGAAGCTAGCCAAGGAAGAAAGACTTCAAGAAGTCATTGAAACCCCTT
 CTCTCTCTGAAAAAGCAGACTCGTACTGCTTCCGATATGGTATCGACATCCCGTATCTTA
 GTTGCAAGTAGTGAAGATGTGCTATGAGGCTAAAGAATGGGATTTACTTAATGAAAAATATT
 ATGCTTTTGTCCAAAAGCGGAGTCAGTTAAAACAAGCTGTTGCCAAAATGGTTCAACAG
 TGCTGTACTTATGTTGAGGAAATCACAGACCTTCCATCAAACCTTCGATTAATTGATACT
 CTACGAATGGTTACCGAAGGCAAGATTTATGTTGAAATTGAGCGTGCGCGACTGACTAAA
 ACATTAGCAACTATAAAAGAACAAAATGGTGATGTGAAAGAGGCAGCCTCCATTTTACAG
 GAGTTACAGGTGGAAACCTACGGGTCAATGGAAAAGAAAGAGCGAGTGGAAATTTATTTTG
 GAGCAATGAGGCTCTGCCTAGCTGTGAAGGATTACATTCGAACACAAAATCATCAGCAAG
 AAAATTAACACCAAAATTTTCCAGGAAGAAAATACAGAGAAATTAAGTTGAAGTACTAT
 AATTTAATGATTCAGCTGGATCAACATGAGGGATCCTATTTGTCTATTTGTAAGCACTAC
 AGAGCAATATATGATACTCCCTGTATACAGGCAGAAAGTAAAAATGGCAGCAGGCTCTG
 AAGAGTGTGTACTCTATGTTATCCTGGCTCCTTTTGACAATGAACAGTCAGATTTGGTT
 CACCGAATAAGTGGTGACAAGAAGTTAGAAGAAATCCCAAATACAAGGATCTTTTAAAG
 CTTTTTACCACAAATGGAGTTGATGCGTTGGTCCACACTTGTGAGGACTATGGAATGGAA
 TTAAGAAAAGGTTCCCTTGAGAGTCCTGCAACGGATGTTTTTGGTTCTACAGAGGAAGGT
 GAAAAAAGGTGGAAGACTTGAAGAACAGAGTTGTTGAACATAATATTAGAATAATGGCC
 AAGTATTATACTCGGATAACAATGAAAAGGATGGCACAGCTTCTGGATCTATCTGTTGAT
 GAGTCCGAAGCCTTTCTCTCAAATCTAGTAGTTAACAAGACCATCTTTGCTAAAGTAGAC
 AGATTAGCAGGAATTATCAACTCCAGAGACCCAAGGATCCAAAATAATTTATTAATGAC
 TGGTCTCAGAAACTGAACCTAATATGTCTCTGGTTAACAAAACACTACGCATCTCATAGCC
 AAAGAGGAGATGATACATAATCTACAATAAGGGTCTTAGTGCTTTAGAAAAAAGTTAAAA
 TTGGAAGTCATTAAAAAAAGACTGTTATAATGGTGATATGTTGGGGTTTTTTTTCTAAG
 CTTCTTTGTCTTAAATTTTAAAAAGTGAATATGTTTGAGACTCCCTTTGACCTTTCAGT
 TCCCAAGTTCATTGTTAACTTTGCATTTGCAATTGGTGCAAAAATACAGATTTCTGTGC
 TCTGAATACACAAAAAGTTGTGCATAACTACCCAGATATGTTTTCTATCATTGAAA
 CCTTTTGTAGTACTGTTTGTTCATTCAACTAACAAACATATCCAATAATAAAAGCAG
 TATATACATAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_002816

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_002816.3](#), [NP_002807.1](#)

RefSeq Size: 1814 bp

RefSeq ORF: 1371 bp

Locus ID: 5718

UniProt ID: [O00232](#)

Cytogenetics: 17q24.2

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. 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. A pseudogene has been identified on chromosome 3. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2015]
Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.