

Product datasheet for **SC313462**

26S proteasome non ATPase regulatory subunit 12 (PSMD12) (NM_174871) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	26S proteasome non ATPase regulatory subunit 12 (PSMD12) (NM_174871) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSMD12
Synonyms:	p55; Rpn5; STISS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



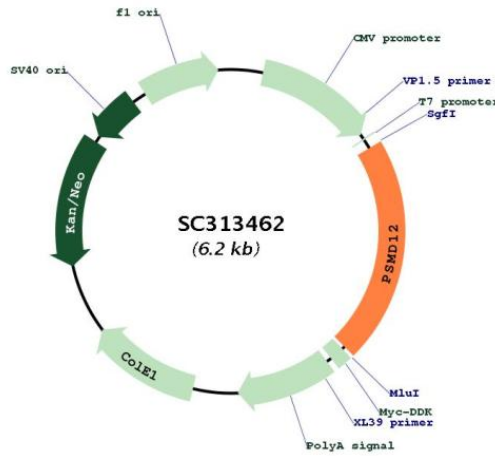
[View online »](#)

Fully Sequenced ORF: >SC313462 representing NM_174871.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCGGACGGCGGCTCGGAGCGGGCTGACGGGCGCATCGTCAAGATGGAGGTGGACTACAGCGCCACG
GTGGATCAGCGCCTACCGAGTGTGCGAAGCTAGCCAAGGCTCCGATATGGTATCGACATCCCGTATC
TTAGTTGCAGTAGTGAAGATGTGCTATGAGGCTAAAGAATGGGATTTACTTAATGAAAATATTATGCTT
TTGTCCAAAAGGCGGAGTCAGTTAAAACAAGCTGTTGCCAAAATGGTTCAACAGTGTCTACTTATGTT
GAGGAAATCACAGACCTTCTATCAAACCTCGATTAATTGATACTCTACGAATGGTTACCGAAGGCAAG
ATTTATGTTGAAATTGAGCGTGCAGACTGACTAAAACATTAGCAACTATAAAAAGAACAAAATGGTGAT
GTGAAAGAGGCAGCCTCCATTTTACAGGAGTTACAGGTGGAACCTACGGGTCAATGGAAAAGAAAGAG
CGAGTGAATTTATTTGGAGCAAATGAGGCTCTGCCTAGCTGTGAAGGATTACATTCGAACACAAATC
ATCAGCAAGAAAATTAACACCAATTTTCCAGGAAGAAAATACAGAGAAATTAAGTTGAAGTACTAT
AATTTAATGATTCAGCTGGATCAACATGAGGGATCCTATTTGTCTATTTGTAAGCACTACAGAGCAATA
TATGATACTCCCTGTATACAGGCAGAAAAGTAAAAATGGCAGCAGGCTCTGAAGAGTGTTGACTCTAT
GTTATCCTGGCTCCTTTTGACAATGAACAGTCAGATTTGGTTCACCGAATAAGTGGTGACAAGAAGTTA
GAAGAAATTCCTCAATACAAGGATCTTTTAAAGCTTTTACCACAATGGAGTTGATGCGTTGGTCCACA
CTTGTTGAGGACTATGGAATGGAATTAAGAAAAGGTTCCCTTGAGAGTCTGCAACGGATGTTTTGGT
TCTACAGAGGAAGGTGAAAAAGGTGAAAAGACTTGAAGAACAGAGTTGTTGAACATAATATTAGAATA
ATGGCCAAGTATTATACTCGGATAACAATGAAAAGGATGGCACAGCTTCTGGATCTATCTGTTGATGAG
TCCGAAGCCTTTCTCAAATCTAGTAGTTAACAAGACCATCTTTGCTAAAGTAGACAGATTAGCAGGA
ATTATCAACTCCAGAGACCCAAGGATCCAATAATTTATTAATGACTGGTCTCAGAACTGAACTCA
TTAATGTCTCTGGTTAACAAAACCTACGCATCTCATAGCCAAAGAGGAGATGATACATAATCTACAATAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_174871

Insert Size: 1311 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:	<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_174871.3</u>
RefSeq Size:	4363 bp
RefSeq ORF:	1311 bp
Locus ID:	5718
UniProt ID:	<u>O00232</u>
Cytogenetics:	17q24.2
Protein Pathways:	Proteasome
MW:	50.6 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. 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 (2) lacks an alternate in-frame coding exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to 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.