

Product datasheet for RC213020

PSMD13 (NM_175932) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | PSMD13 (NM_175932) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | PSMD13 |
| Synonyms: | HSPC027; p40.5; Rpn9; S11 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC213020 representing NM_175932 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGACGTACCGGGCTTCTACAGCAGAGCCAGAACTCCGGGCCCGGCAGCCCGCTGTGTGGCACC
GTCTGGAGGAGCTCTACACGAAGAAGCTTTATGAAAAGCTTTATCAGTGAATTTGAACACAGGTAAGGCTT
CTCATCCGTTTTCACTTTGAAATGAGTGCATTGATGCTCGCGGTGCTCAAAGGCTGGTGGCTTTTAT
TTCAGGGTGAACCTTTGTCCCTCGTGGAAATCATTCTTCATGTAGTTAGACAGATGACTGATCCTAATG
TGGCTCTTACTTTCTGAAAAGACTCGTGAGAAGGTGAAAAGTAGTGATGAGGCAGTGATCCTGTGTAA
AACAGCAATTGGAGCTCTAAAATTAACATCGGGGACCTACAGGTTACAAAGGAAACAATGAAGATGTT
GAAGAAATGCTCAACAACCTTCTGGTGTGACATCGGTTACAGTCGTTTCTATGATCTCTCCAGTAAAT
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CAAGGATCTACCAGTGTCTGAGCAGCAGGAGAGAGCCTTACGCTGGGGCTAGCAGGACTTCTCGGCGAG
GGAGTTTTTAACCTTTGGAGAAGCTCTCATGCACCTGTGCTGGAGTCCCTGAGGAATACTGACCGGCAGT
GGCTGATTGACACCCTCTATGCCTTCAACAGTGGCAACGTAGAGCGGTTCCAGACTCTGAAGACTGCCTG
GGCCAGCAGCCTGATTTAGCAGCTAATGAAGCCAGCTTCTGAGGAAAATTCAGTTGTTGTGCCTCATG
GAGATGACTTTTACACGACCTGCCAATCACAGACAACACTCTTTTGAAGAAATGGCCAAAAGTGCTAAAA
TCACAGTGAATGAGGTGGAGCTTCTGGTGTGAAGGCCCTTTCGGTGGGGCTGGTGAAGGCAAGTATAGA
CGAGGTGGACAAACGAGTCCACATGACCTGGGTGCAGCCCGAGTGTGGATTTGCAACAGATCAAGGGA
ATGAAGGACCGCCTGGAGTTCTGGTGCACGGATGTGAAGAGCATGGAGATGCTGGTGGAGCACCAGGCC
ATGACATCCTCACC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC213020 representing NM_175932
Red=Cloning site Green=Tags(s)

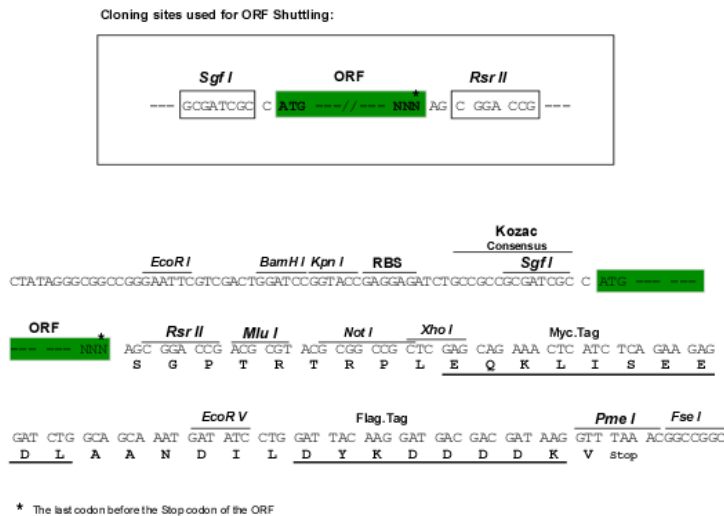
MKDVPGFLLQSSQNSGPGQPAVWHRLEEL YTKNFMKTL SVNLNTGKSL SSVFHFENECIDARRCSKAGGFY
 FRVNPLSLVEIILHVVRQMTDPNVALTFLEKTREKVKSSDEAVILCKTAIGALKLNIGDLQVTKETIEDV
 EEMLNLPVGVTSVHSRFDLSSKYYQTIGNHASYYKDALRFLGCVDIKDLPVSEQQERAF TLGLAGLLGE
 GVFNFGELLMHPVLESLRNTDRQWLIDTL YAFNSGNVERFQTLKTAWGQQPDLAANEAQLLRKIQLLCLM
 EMTFTRPANHRQLTFEEIAKSAKITVNEVELLVMKALSVGLVKGSIDEVDKRVHMTWVQPRVLDLQQIKG
 MKDRLEFWCTDVKSMEMLEVEHQAH DILT

SGPTRTRRLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8055_h02.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_175932

ORF Size: 1134 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_175932.3](#)

RefSeq Size: 1763 bp

RefSeq ORF: 1137 bp

Locus ID: 5719

UniProt ID: [Q9UNM6](#)

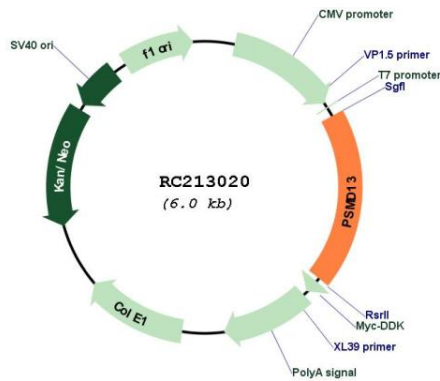
Cytogenetics: 11p15.5

Protein Pathways: Proteasome

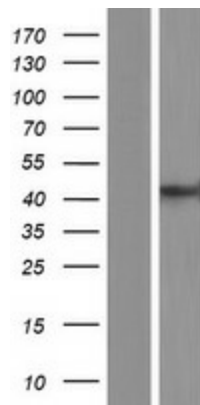
MW: 42.8 kDa

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]

Product images:



Circular map for RC213020



Western blot validation of overexpression lysate (Cat# [LY406216]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213020 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).