

Product datasheet for **RG200037**

PSMD13 (NM_002817) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMD13 (NM_002817) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PSMD13
Synonyms:	HSPC027; p40.5; Rpn9; S11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200037 representing NM_002817 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGACGTACCGGGCTTCTACAGCAGAGCCAGAGCTCCGGGCCCGGCAGCCCGCTGTGTGGCACC
GTCTGGAGGAGCTCTACACGAAGAAGTTGTGGCATCAGCTGACACTTCAGGTGCTTGATTTTGTGCAGGA
TCCGTGCTTTGCCAAGGAGATGGTCTCATTAAAGCTTTATGAAAACCTTATCAGTGAATTTGAACACAGG
GTGAATCCTCTGTCCCTCGTGGAAATCATTCTCACGTAGTTAGACAGATGACTGATCCTAATGTGGCTC
TTACTTTTCTGGAAAAGACTCGTGAGAAGGTGAAAAGTAGTGATGAGGCAGTGATCCTGTGTA AACAGC
AATTGGAGCTCTAAAATTAACATCGGGGACCTACAGGTTACAAAAGGAAACAATTGAAGATGTTGAAGAA
ATGCTCAACAACCTTCTGGTGTGACATCGGTTACAGTCGTTTCTATGATCTCTCCAGTAAATACTATC
AAACAATCGGAAACCACGCGTCTACTACAAAGATGCTCTGCGGTTTTGGGCTGTGTTGACATCAAGGA
TCTACCAAGTGTCTGAGCAGCAGGAGAGACCTTACGCTGGGGCTAGCAGGACTTCTCGGCGAGGGAGTT
TTAACTTTGGAGAACTCCTCATGCACCCTGTGCTGGAGTCCCTGAGGAATACTGACCGGACGTGGCTGA
GCAGCCTGATTTAGCAGCTAATGAAGCCAGCTTCTGAGGAAAATTCAGTTGTTGTCCTCATGGAGATG
ACTTTACACGACCTGCCAATCACAGCAACTCACTTTTGAAGAAATGCCAAAAGTGCTAAAATCACAG
TGAATGAGGTGGAGCTTCTGGTGTGAAGGCCCTTTCGGTGGGGCTGGTGAAGGCAAGTATAGACGAGGT
GGACAAACGAGTCCACATGACCTGGGTGACGCCCGAGTGTGGATTTGCAACAGATCAAGGGAATGAAG
GACCGCTGGAGTTCTGGTGCACGGATGTGAAGAGCATGGAGATGCTGGTGGAGCACCAGGCCCATGACA
TCCTCACC

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG200037 representing NM_002817
 Red=Cloning site Green=Tags(s)

MKDVPGFLLQSSQSSGPGQPAVWHRLEELYTKKLWHQLTLQVLDVFVQDPCFAQGDGLIKLYENFISEFEHR
 VNPLSLVEIILHVVRQMTDPNVALTFLEKTRKVKSSDEAVILCKTAIGALKLNIGDLQVTKETIEDVEE
 MLNNLPGVTSVHSRFDLSSKYQTIGNHASYYKDALRFLGCVDIKDLPVSEQQERAFTLGLAGLLGEGV
 FNFGELLMHPVLESRLNTRDQWLDITLYAFNSGNVERFQTLKTAWGQQPDLAANEAQLLRKIQLLCLMEM
 TFTRPANHRQLTFEEIAKSAKITVNEVELLVMKALSVGLVKGSIDEVDKRVHMTWVQPRVLDLQQIKGMK
 DRLEFWCTDVKSMEMLVEHQHDILT

SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_002817

ORF Size: 1128 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_002817.2](#), [NP_002808.2](#)

RefSeq Size: 1587 bp

RefSeq ORF: 1131 bp

Locus ID: 5719

UniProt ID: [Q9UNM6](#)

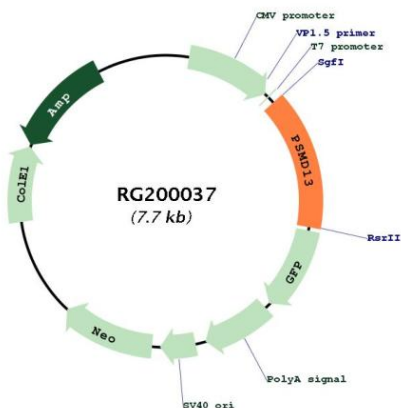
Cytogenetics: 11p15.5

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. Two transcripts encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG200037