

## Product datasheet for **RG213020**

### PSMD13 (NM\_175932) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PSMD13 (NM_175932) 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:	>RG213020 representing NM_175932 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGGACGTACCGGGCTTCTACAGCAGAGCCAGAACTCCGGGCCCGGGCAGCCCGCTGTGTGGCACC  
GTCTGGAGGAGCTCTACACGAAGAAGCTTTATGAAAAGCTTTATCAGTGAATTTGAACACAGGTAAGAGCCT  
CTCATCCGTTTTCACTTTGAAAATGAGTGCATTGATGCTCGGCGGTGCTCAAAGGCTGGTGGCTTTTAT  
TTCAGGGTGAACCCTTTGTCCCTCGTGGAAATCATTCTTCATGTAGTTAGACAGATGACTGATCCTAATG  
TGGCTCTTACTTTCTGAAAAGACTCGTGAGAAGGTGAAAAGTAGTGATGAGGCAGTGATCCTGTGTAA  
AACAGCAATTGGAGCTCTAAAATTAACATCGGGGACCTACAGGTTACAAAGGAAACAATGAAGATGTT  
GAAGAAATGCTCAACAACCTTCTGGTGTGACATCGGTTACAGTCGTTTCTATGATCTCTCCAGTAAAT  
ACTATCAAAACAATCGAAACCACGCGTCTACTACAAAGATGCTCTCGGTTTTGGGCTGTGTTGACAT  
CAAGGATCTACCAGTGTCTGAGCAGCAGGAGAGAGCCTTACGCTGGGGCTAGCAGGACTTCTCGGGCAG  
GGAGTTTTTAACCTTTGGAGAAGCTCCTCATGCACCCTGTGCTGGAGTCCCTGAGGAATACTGACCGGCAGT  
GGCTGATTGACACCCTCATGCCTTCAACAGTGGCAACGTAGAGCGGTTCCAGACTCTGAAGACTGCCTG  
GGCCAGCAGCCTGATTTAGCAGCTAATGAAGCCAGCTTCTGAGGAAAATTCAGTTGTTGTGCCTCATG  
GAGTACTTTTACACGACCTGCCAATCACAGACAACCTACTTTTGAAGAAATGGCCAAAAGTGCTAAAA  
TCACAGTGAATGAGGTGGAGCTTCTGGTGTGAAGGCCCTTTCGGTGGGGCTGGTAAAAGGCAGTATAGA  
CGAGGTGGACAAAACGAGTCCACATGACCTGGGTGCAGCCCGAGTGTGGATTTGCAACAGATCAAGGGA  
ATGAAGGACCGCCTGGAGTTCTGGTGCACGGATGTGAAGAGCATGGAGATGCTGGTGGAGCACCAGGCC  
ATGACATCCTCACC

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG213020 representing NM\_175932  
 Red=Cloning site Green=Tags(s)

MKDVPGFLLQSSQNSGPGQPAVWHRLEELYTKNFMKTLVNLNTGKSLSSVFHFENECIDARRCSKAGGFY  
 FRVNPLSLVEIILHVVRQMTDPNVALTFLEKTRKVKSSDEAVILCKTAIGALKLNIGDLQVTKETIEDV  
 EEMLNLLPGVTSVHSRFDLSSKYYQTIGNHASYYKDALRFLGCVDIKDLPVSEQQERAFGLGLAGLLGE  
 GVFNFGELLMHPVLESLRNTDRQWLIDTLYAFNSGNVERFQTLKTAWQQPDLAANEAQLLRKIQLLCLM  
 EMTFTRPANHRQLTFEEIAKSAKITVNEVELLVMKALSVGLVKGSIDEVDKRVHMTWVQPRVLDLQQIKG  
 MKDRLEFWCTDVKSMEMLVEHQAHDILT

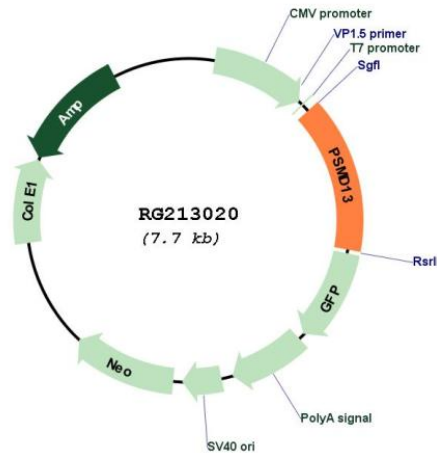
SGPTRRRLE - GFP Tag - V

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_175932

<b>ORF Size:</b>	1134 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_175932.3</a>
<b>RefSeq Size:</b>	1763 bp
<b>RefSeq ORF:</b>	1137 bp
<b>Locus ID:</b>	5719
<b>UniProt ID:</b>	<a href="#">Q9UNM6</a>
<b>Cytogenetics:</b>	11p15.5
<b>Protein Pathways:</b>	Proteasome
<b>Gene Summary:</b>	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]