

## Product datasheet for **SC308174**

### PSMG1 (NM\_203433) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PSMG1 (NM_203433) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSMG1
Synonyms:	C21LRP; DSCR2; LRPC21; PAC-1; PAC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC308174 representing NM_203433. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGGCCACGTTCTTCGGAGAGGTGGTGAAGGCGCCGTGCCGAGCTGGGACTGAGGACGAAGAGGAG
GAGGAGGAGGGGCGGAGGAGACGCCGAGGACAGGGAGGTGCGTCTGCAGCTGGCGCGGAAGAGGGAA
GTGCGGCTCCTTCGAAGACAAAACAAAACATCTTTGGAAGTTCTTTGCTAGAAAAATATCCGTGCTCC
AAGTTTATAATTGCTATAGGAAATAATGCAGTAGCATTCTGTCATCATTGTTATGAATTCAGGAGTC
TGGGAGGAAGTTGTTGTGCTAAACTCTGGAATGAATGGTGTAGAACAACAGACTACACATCTGTCC
TCCACAGAGGCTTTTTGTGTGTTTTATCATCTAAAATCCAATCCCTCGGTTTTTGGCTCTGTCCAAGG
AAGAACATGCAGATAACTATTCTCACATGTCGACATGTTACCGATTATAAACCTCAGAATCCACCGGC
AGCCTTCCTTCTCCTTTCCTGAGAGCCCTAAAAACACAGAATTTCAAAGACTCGGCGTGTGTCCATTG
CTAGAACAACCGAATATAGTACACGACCTTCTGCAGCAGTTCTAAGCTACTGTCAAGTATGAAAAATC
CCAGCAATTCTGTACTTGTGTTACTGATGTGATGAAATTAGACCTAATCACAGTGAAGCTTTTAAG
CCTATACTTTCTACCAGAAGCTTGAAGGGTTGGTTAAGAATATCCCAAGCACTGAGATACTAAAG
AAATTGATGACAACAAATGAGATTCAGAGTAACATTTATACATGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites:	Sgfl-MluI
Plasmid Map:	<input type="checkbox"/>
ACCN:	NM_203433
Insert Size:	804 bp



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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<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_203433.2</a>
<b>RefSeq Size:</b>	1077 bp
<b>RefSeq ORF:</b>	804 bp
<b>Locus ID:</b>	8624
<b>UniProt ID:</b>	<a href="#">O95456</a>
<b>Cytogenetics:</b>	21q22.2
<b>MW:</b>	30.3 kDa
<b>Gene Summary:</b>	<p>Chaperone protein which promotes assembly of the 20S proteasome as part of a heterodimer with PSMG2. The PSMG1-PSMG2 heterodimer binds to the PSMA5 and PSMA7 proteasome subunits, promotes assembly of the proteasome alpha subunits into the heteroheptameric alpha ring and prevents alpha ring dimerization.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks an exon in the coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (2) is shorter than isoform 1.</p>