

Product datasheet for **SC335058**

PSMG1 (NM_001261824) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMG1 (NM_001261824) 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:	>NCBI ORF sequence for NM_001261824, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCCACGTTCTTCGGAGAGGTGGTGAAGGCGCCGTGCCGAGCTGGGACTGAGGACGAAGAGGAGG
AGGAGGAGGGGCGGAGGGAGACGCCGAGGACAGGGAGGTGCGTCTGCAGCTGGCGCGGAAGAGGGAAGT
GCGGCTCCTTCGAAGACAAACAAAAACATCTTTGGAAGTTTCTTTGCTAGAAAAATATCCGTGCTCCAAG
TTTATAATTGCTATAGGAAATAATGCAGTAGCATTCTGTGCATCATTTGTTATGAATTCAGGAGTCTGGG
AGGAAGTTGGTTGTGCTAAACTCTGGAATGAATGGTGTAGAACAACAGACACTACACATCTGCTCCAC
AGAGGCTTTTTGTGTGTTTTATCATCTAAATCCAATCCCTCGTGCAGTTGCTATGTTGCAGAAGATCAA
CAGTATCAGTGGCTGAAAAGGTTTTTGGCTCTTGCCAAGGAAGAACATGCAGATAACTATTCTCACAT
GTCGACATGTTACCGATTATAAACCTCAGAATCCACCGGCAGCCTTCTTCTCCTTTCCTGAGAGCCCT
AAAAACACAGAATTTCAAGACTCGGCGTGTGTCCATTGCTAGAACAACCGAATATAGTACACGACCTT
CCTGCAGCAGTTCTAAGCTACTGTCAAGTATGGAAAATCCAGCAATTCTGTACTTGTGTTATACTGATG
TGATGAAATTAGACCTAATCACAGTGGAAAGCTTTTAAGCCTATACTTTCTACCAGAAGCTTGAAGGGTTT
GGTTAAGAATATCCCCAAAGCACTGAGATACTAAAGAAATTGATGACAACAAATGAGATTGAGAGTAAC
ATTTATACATGA
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001261824
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).



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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_001261824.1, NP_001248753.1</u>
RefSeq Size:	1125 bp
RefSeq ORF:	852 bp
Locus ID:	8624
Cytogenetics:	21q22.2
Gene Summary:	<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 (3) uses an alternate splice site in the coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (3) is shorter than isoform 1.</p>