

Product datasheet for **SC319294**

PSMG2 (NM_020232) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	PSMG2
Synonyms:	CLAST3; HCCA3; HsT1707; MDS003; PAC2; TNFSF5IP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_020232.3 GCCAGGGCCGCGTTAGTCCCTGCTGGCCACCCCACTGCGACCATGTTCTCCCTGCGG GGAGTCGGCCCCGACCTTGCCGGCTTCACCCCTCCTAATGCCAGCAGTATCTGTTGGAAA TGTGGCCAGCTTGCAATGGATCTGATTATTTCTACACTGAATATGTCTAAGATTGGTTA CTTCTATACCGATTGTCTTGTGCCAATGGTTGGAACAATCCATATGCGACCACAGAAGG AAATTCACAGAACTTAGCATAAATGCTGAAGTGATTTCATTGCCTTCAAGAAAGCTGGT GGCTCTACAGTTAAGATCCATTTTATTAAGTATAAATCAAAGCCGTTCTGTGAAAACT GCTTTCCTGGGTGAAAAGCAGTGGCTGTGCCAGAGTCATTGTTCTTCAAGCAGTCATTC ATATCAGCGTAATGATCTGCAGCTTCGTAGTACTCCCTCCGGTACCTACTTACACCTTC CATGCAAAAAAGTGTTCAAAAATAAAGAGCCTTAACGGGAAGAAATGAAAAAAG CCGGTGCAATCCTGAAATAGATGATTCCGAGTTTGTATCCGCATTCCGGGAGGAGGTAT CACAAAAACACTCTATGATGAAAGCTGTTCTAAAGAAATCCAATGGCAGTTCTGCTGAA ATTTGTTTCAGAAGGGGACAACATCCAGATGCATTAGGTCTTGTGAGTATCTTAATGA GTGGCTTCAGATACTCAAACCACTTAGCGATGACCCACAGTATCTGCCTCACGGTGGAA AATACCAAGTTCTTGGAGATTACTCTTGGCAGTGGTCTTCCCCCTGCACTTTTCTGATC TAATTTCTGTTTATACCTTATACCAAAACACTTACTACCAACACAGCTGTTAAACATT CTATACAAAAAATTGTATGATCTGGTATTAGGAAATTAATTTACAGTAAATATCAAAG AAAAAGATTAAGGGTCTCTTGGCCATGCTTTTCATCATATGCACCAAATGTAAATTTTG TACAATAAAATTTTATTTCTAAGTAAAAAAAAAAAAAAAAAAAA
Restriction Sites:	Please inquire
ACCN:	NM_020232



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).
OTI Annotation:	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.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_020232.3</u> , <u>NP_064617.2</u>
RefSeq Size:	1064 bp
RefSeq ORF:	795 bp
Locus ID:	56984
UniProt ID:	<u>Q969U7</u>
Cytogenetics:	18p11.21
Gene Summary:	Chaperone protein which promotes assembly of the 20S proteasome as part of a heterodimer with PSMG1. 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] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).