OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC327828

PSMC6 (NM_002806) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMC6 (NM_002806) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSMC6
Synonyms:	p42; RPT5; SUG2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC327828 representing NM_002806. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGGCCATTCCCGGCATCCCCTATGAGAGACGGCTTCTCATCATGGCGGACCCTAGAGATAAGGCGCTT CAGGACTACCGCAAGAAGTTGCTTGAACACAAGGAGATCGACGGCCGTCTTAAGGAGTTAAGGGAACAA TTAAAAGAACTTACCAAGCAGTATGAAAAGTCTGAAAATGATCTGAAGGCCCTACAGAGTGTTGGGCAG ATCGTGGGTGAAGTGCTTAAACAGTTAACTGAAGAAAAATTCATTGTTAAAGCTACCAATGGACCAAGA TATGTTGTGGGTTGTCGTCGACAGCTTGACAAAAGTAAGCTGAAGCCAGGAACAAGAGTTGCTTTGGAT ATGACTACACTAACTATCATGAGATATTTGCCGAGAGAGGTGGATCCACTGGTTTATAACATGTCTCAT GAGGACCCTGGGAATGTTTCTTATTCTGAGATTGGAGGGCTATCAGAACAGATCCGGGAATTAAGAGAG GTGATAGAATTACCTCTTACAAACCCAGAGTTATTTCAGCGTGTAGGAATAATACCTCCAAAAGGCTGT TTGTTATATGGACCACCAGGTACGGGAAAAACACTCTTGGCACGAGCCGTTGCTAGCCAGCTGGACTGC AATTTCTTAAAGGTTGTATCTAGTTCTATTGTAGACAAGTACATTGGTGAAAGTGCTCGTTTGATCAGA GAAATGTTTAATTATGCTAGAGATCATCAACCATGCATCATTTTTATGGATGAAATAGATGCTATTGGT GGTCGTCGGTTTTCTGAGGGTACTTCAGCTGACAGAGAGATTCAGAGAACGTTAATGGAGTTACTGAAT CAAATGGATGGATTTGATACTCTGCATAGAGTTAAAATGATCATGGCTACAAACAGACCAGATACACTG GATCCTGCTTTGCTGCGTCCAGGAAGATTAGATAGAAAAATACATATTGATTTGCCAAATGAACAAGCA AGATTAGACATACTGAAAATCCATGCAGGTCCCATTACAAAGCATGGTGAAATAGATTATGAAGCAATT GTGAAGCTTTCGGATGGCTTTAATGGAGCAGATCTGAGAAATGTTTGTACTGAAGCAGGTATGTTCGCA ATTCGTGCTGATCATGATTTTGTAGTACAGGAAGACTTCATGAAAGCAGTCAGAAAAGTGGCTGATTCT AAGAAGCTGGAGTCTAAATTGGACTACAAACCTGTGTAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI

View online »

ACCN:	NM_002806
Insert Size:	1212 bp
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.
RefSeq:	NM_002806.3
RefSeq Size:	1599 bp
RefSeq ORF:	1212 bp
Locus ID:	5706
UniProt ID:	P62333
Cytogenetics:	14q22.1
Domains:	AAA, AAA
Protein Pathways:	Proteasome
MW:	45.8 kDa
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 one of the ATPase subunits, a member of the triple-A family of ATPases which have a chaperone-like activity. Pseudogenes have been identified on chromosomes 8 and 12. [provided by RefSeq, Jul 2008]