

Product datasheet for SC126754

PSMC5 (NM_002805) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMC5 (NM_002805) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSMC5
Synonyms:	p45; p45/SUG; RPT6; S8; SUG-1; SUG1; TBP10; TRIP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC126754 sequence for NM_002805 edited (data generated by NextGen Sequencing)

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ATGGCGTTGACGGACCAGAGCAGATGGAGCTGGAGGAGGGGAAGGCAGGCAGCGGACTC
CGCCAATATTATCTGTCCAAGATTGAAGAAGTCCAGCTGATTGTGAATGATAAGAGCCAA
AACCTCCGGAGGCTGCAGGCACAGAGGAACGAACATAAATGCTAAAAGTTCCGCTATTGCGG
GAGGAGCTACAGCTGCTGCAGGAGCAGGGCTCCTATGTGGGGGAAGTAGTCCGGGCCATG
GATAAGAAGAAAGTGTGGTCAAGGTACATCCTGAAGGTAATTTGTTGTAGACGTGGAC
AAAAACATTGACATCAATGATGTGACACCCAATTGCCGGTGGCTCTAAGGAATGACAGC
TACTCTGCACAAGATCCTGCCAACAAAGGTAGACCCATTAGTGCTACTGATGATGGT
GAGAAAGTACCAGATTCAACTTATGAGATGATTGGTGGACTGGACAAACAGATCAAGGAG
ATCAAAGAAGTGATCGAGCTGCCTGTTAAGCATCCTGAGCTCTTGAAGCACTGGGCATT
GCTCAGCCCAAGGAGTGTGTGTATGGACCTCCAGGCACTGGGAAGACTGTTGGCC
CGGGCTGTGGCTCATCATACGGACTGTACCTTTATTCGTGTCTCTGGCTCTGAATTGGTA
CAGAAATTCATAGGGGAAGGGGCAAGAATGGTGAGGGAGCTGTTTGTGCATGGCACGGGAA
CATGCTCCATCTATCATCTTCATGGACGAAATCGACTCCATCGGCTCCTCGCGGCTGGAG
GGGGTTCTGGAGGGGACAGTGAAGTGCAGCGCACGATGCTGGAGTTGCTCAACCAAGCTC
GACGGCTTTGAGGCCACCAAGAACATCAAGGTTATCATGGCTACTAATAGGATTGATATC
CTGGACTCGGCACTGCTTCGCCCAGGGCGCATTGACAGAAAAATTGAATCCCACCCCC
AATGAGGAGGCCCGGCTGGACATTTTGAAGATTCATTCTCGGAAGATGAACCTGACCCGG
GGGATCAACCTGAGAAAAATTGCTGAGCTCATGCCAGGAGCATCAGGGGCTGAAAGTGAAG
GGCGTGTGCACAGAAGCTGGCATGTATGCCCTGCGAGAACGGCGAGTCCATGTCACTCAG
GAGGACTTTGAGATGGCAGTAGCCAAGGTCATGCAGAAGGACAGTGAAGAAAAACATGTCC
ATCAAGAAATTATGGAAGTGA

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Clone variation with respect to NM_002805.5
655 c=>t



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002805 unedited
 ATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGAGAGAAGAGGCGC
 TTGACGGACCAGAGCAGATGGAGCTGGAGGAGGGGAAGGCAGGCAGCGGACTCCGCCAAT
 ATTATCTGTCCAAGATTGAAGAACTCCAGCTGATTGTGAATGATAAGAGCCAAAACCTCC
 GGAGGCTGCAGGCACAGAGGAACGAACAAATGCTAAAGTTCGCCTATTGCGGGAGGAGC
 TACAGCTGCTGCAGGAGCAGGGCTCCTATGTGGGGGAAGTAGTCCGGGCCATGGATAAGA
 AGAAAGTGTGGTCAAGGTACATCCTGAAGGTAATTTGTTGTAGACGTGGACAAAAACA
 TTGACATCAATGATGTGACACCCAATTGCCGGTGGCTCTAAGGAATGACAGCTACACTC
 TGACAAGATCCTGCCCAACAAGGTAGACCCATTAGTGCTCACTGATGATGGTGGAGAAAG
 TACCAGATTCACTTATGAGATGATTGGTGGACTGGACAAACAGATCAAGGAGATCAAAG
 AAGTGATCGAGCTGCCTGTTAAGCATCCTGAGCTCTTGAAGCACTGGGCATTGCTCAGC
 CCAAGGGAGTGTCTGTATGGACCTCCAGGCACTGGGAAGACTGTTGGCCCCGGGCTG
 TGGCTCATATACGGACTGTACCTTTATTCGTGTCTCTGGCTCTGAATTGGTACAGAAATT
 CTAGGGGAAGGGCATGAATGGTGAGGGAGCTNGTTGTCATGCACGGGACATGCTCATCT
 ATATCTCATGACAAATCACTCATCGCTCTCCGCTGAGGGGGTCTGAGGGCCANTGATGC
 ACGCACATGCTGATGCTCACACTCGACGCTTGAGCACAGACTCAGGTTATGCTCAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002805 unedited
 CGCGGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGACTTGGCCACAGAGCT
 TTATTGGAGAGATACACAAAAGGCTGTCCACTCACTTCCATAATTTCTTGATGGACATG
 TTTTCTCACTGTCTTCTGCATGACCTTGGCTACTGCCATCTCAAAGTCTCTCTGAGTG
 ACATGGACTCGCGTTCTCGCAGGGCATAACATGCCAGCTTCTGTGCACACGCCCTTCACT
 TCAGCCCCTGATGCTCCTGGCATGAGCTCAGCAATTTTTCTCAGTTGATCCCCGGGTC
 AGGTTTCATCTCCGAGAATGAATCTTCAAATGTCCAGCCGGGCTCCTCATTGGGGGT
 GGAATTCAATTTTTCTGTCAATGCGCCCTGGGCGAAGCAGTGCCGAGTCCAGGATATCA
 ATCCTATTAGTAGCCATGATAACCTTGATGTTCTTGGTGGCCCTCAAAGCCGTCGAGCTG
 GTTGAGCAACTCCAGCATCGTGCCTGCACTTCACTGTCCCTCCAGAACCCCCCTCCAG
 CCGCGAGGAGCCGATGGAGTCGATTTCCGCCATGAAGATGATAGATGGAGCATGTTCCCG
 TGCCATGACAAAACAAGCTCCTCACCATTTTGGCCCTCCCCTATGAATTTCTGTACCA
 ATTCAGAGCCCGAGACACGAATAAATGTACAGTCCGTATGATGAGCCCCAACCCCGGCGC
 AACCAGTGTCTTCCAGTGCCTGAAAGGCCATACAGCAACTCCCCTGGGCTGACCCA
 AGCCCATGGCTTTAAAAAGCCCCAGAAGCTTAACAGCCAGCTCGACACTTCTTGACCCC
 CCTGACCGTTGTCCAGTCCCACCAAATTCCAAAGTTGGAAGTGGCACTTCTCCCCCA
 TTATCATGAAACTAAAGGCCACCTT

Restriction Sites:

NotI-NotI

ACCN:

NM_002805

Insert Size:

1430 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).

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:	NM_002805.4 , NP_002796.4
RefSeq Size:	1332 bp
RefSeq ORF:	1221 bp
Locus ID:	5705
UniProt ID:	P62195
Cytogenetics:	17q23.3
Domains:	AAA, AAA
Protein Families:	Druggable Genome
Protein Pathways:	Proteasome
Gene Summary:	<p>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. In addition to participation in proteasome functions, this subunit may participate in transcriptional regulation since it has been shown to interact with the thyroid hormone receptor and retinoid X receptor-alpha. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2010]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>