

Product datasheet for **SC101816**

PSMC5 (AK098484) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMC5 (AK098484) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSMC5
Synonyms:	p45; p45/SUG; S8; SUG-1; SUG1; TBP10; TRIP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for AK098484, the custom clone sequence may differ by one or more nucleotides

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GGATGCCGGCGTCTCTGCTGAAGAGAGAAGATGGCGCTTGACGGACCAGAGCAGGTATGGCGGGTGCAG
TGGCGGCCCGGCAGGTTACGGGGCTGGGTGCGGAGCGAGCGTGATCTGAGTGGAGAGCGGGCCGGGGCAG
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TGCTCTTGTCTGCCACAGCTGATTGTGAATGATAAGAGCCAAAACCTCCGGAGGCTGCAGGCACAGAGG
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5' Read Nucleotide Sequence:

>OriGene 5' read for AK098484 unedited
 ACACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCTGCTGAAGAGAAAAAGCGG
 CTTGACGGACCAGAGCAGATGGAGCTGGAGGAGGGGAAGGCAGGCAGCGGACTCCGCCAA
 TATTATCTGTCCAAGATTGAAGAACTCCAGCTGATTGTGAATGATAAGAGCCAAAACCTC
 CGGAGGCTGCAGGCACAGAGGAACGAACAAATGCTAAAGTTCGCCTATTGCGGGAGGAG
 CTACAGCTGCTGCAGGAGCAGGGCTCCTATGTGGGGGAAGTAGTCCGGGCCATGGATAAG
 AAGAAAGTGTGGTCAAGGTACATCCTGAAGGTAATTTGTTGTAGACGTGGACAAAAAC
 ATTGACATCAATGATGTGACACCCAATTGCCGGTGGCTCTAAGGAATGACAGCTACACT
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 TCCATCTATCATTTTCATGGACGAAATCGACTCCCATCGCTTCTCGCGCTGGAGAGGGGG
 GTTCTGGAGNGACAANTGAANTGCACGACGATGCCTGNAGTGCTACCANCTCGACGC
 TTTTGAGGCACCAGACATCAGGNTATCATGGCTCTAATAGGATNGANTCN

3' Read Nucleotide Sequence:

>OriGene 3' read for AK098484 unedited
 NGGTACTACTATGNNACCGCGCCGCATNCTANGATCGAGTTTTTTTTTTTTTTTTTTTAC
 TTGGCCACANAGCTTTATTGGAGAGNAACACACAAAAGGCTGTCCACTCACTTCCATAAT
 TTCTTGATGGACATGTTTTTCTCACTGTCCTTCTGCATGACCTTGCTACTGCCATCTCA
 AAGTCCTCCTGAGTGACATGGACTCGCCGTTCTCGCAGGCATACATGCCAGCTTCTGTG
 CACACGCCCTTCACTTACGCCCTGATGCTCCTGGCATGAGCTCAGCAATTTTTTCTCAGG
 TTGATCCCCCGGGTCAGGTTTCATCTCCGAGAATGAATCTTCAAATGTCCAGCCGGGCC
 TCCTCATTGGGGGGTGGGAATTCATTTTTTCTGTCAATGCGCCCTGGGCGAAGCAGTGCC
 GAGTCCAGGATATCAATCCTATTAGTAGCCATGATAACCTTGATGTTCTTGGTGGCCTCA
 AAGCCGTCGAGCTGGTTGAGCAACTCCAGCATCGTGGCTGCCTTCACTGTCCCTCCA
 GAACCCCTCCAGCCGCGAGGAGCCGATGGAGTCGATTCGTCATGAAGATGATAGAT
 GGAGCATGTTCCCGTCCCATGACAAAACAGCTCCCTCACCATTCTTGCCCTTCCCCTATG
 AATTTCTGTACCAATTCAGAGCCAGAGACACGAATAAAGGTACAGTCCGTATGATGAGCC
 ACAGCCCGGGCCAAACAGTGTCTTCCAGTGCCTGGAGGTCATACAGCAGCACTCCCTTG
 GGCTGAGCATGCCAGTCTTGAAGAGCTCAGGATGCTTACAGGCAGCTCGATCACTT
 CTTGATCTCCTTGATCTGGTTGTCCAGTCCACCATCATCTCATAAGTTGGATCTGGGACT
 TTTCTCCCN

Restriction Sites:

NotI-NotI

ACCN:

AK098484

Insert Size:

1250 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:

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: [AK098484.1](#)

RefSeq Size: 3138 bp

RefSeq ORF: 3138 bp

Locus ID: 5705

Cytogenetics: 17q23.3

Domains: AAA

Protein Families: Druggable Genome

Protein Pathways: Proteasome

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. 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]