

Product datasheet for RC233976

PSMC5 (NM_001199163) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PSMC5 (NM_001199163) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PSMC5
Synonyms: p45; p45/SUG; RPT6; S8; SUG-1; SUG1; TBP10; TRIP1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC233976 representing NM_001199163
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCTGGAGGAGGGGAAGGCAGGCAGCGGACTCCGCCAATATTATCTGTCCAAGATTGAAGAACTCC
 AGCTGATTGTGAATGATAAGAGCCAAAACCTCCGGAGGCTGCAGGCACAGAGGAACGAACAAATGCTAA
 AGTTCCGCTATTGCGGGAGGAGCTACAGCTGCTGCAGGAGCAGGGCTCCTATGTGGGGGAAGTAGTCCGG
 GCCATGGATAAGAAGAAAGTGTGGTCAAGGTACATCCTGAAGTAAATTTGTTGTAGACGTGGACAAAA
 ACATTGACATCAATGATGTGACACCCAATTGCCGGTGGCTCTAAGGAATGACAGCTACACTCTGCACAA
 GATCCTGCCCAACAAGGTAGACCCATTAGTGCTACTGATGATGGTGGAGAAAGTACCAGATTCAACTTAT
 GAGATGATTGGTGGACTGGACAAACAGATCAAGGAGATCAAAGAAGTATCGAGCTGCCTGTAAAGCATC
 CTGAGCTCTTGAAGCACTGGGCATTGCTCAGCCCAAGGGAGTGTGCTGTATGGACCTCCAGGCACTGG
 GAAGACTGTTGGCCCGGGCTGTGGCTCATACCGACTGTACCTTTATTCGTGTCTCTGGCTCTGAA
 CTGGTACAGAAATTCATAGGGGAAGGGCAAGAATGGTGGAGGAGCTGTTTGTATGGCACGGGAACATG
 CTCCATCATCATCTTCATGGACGAAATCGACTCCATCGGCTCCTCGGGCTGGAGGGGGTTCTGGAGG
 GGACAGTGAAGTGCAGCGCAGATGCTGGAGTTGCTCAACCAGCTCGACGGCTTTGAGGCCACCAAGAAC
 ATCAAGTTATCATGGCTACTAATAGGATTGATATCCTGGACTCGGCATGCTTCCGCCAGGGCGCATTG
 ACAGAAAAATGAATCCACCCCAATGAGGAGGCCCGCTGGACATTTTGAAGATTCAATCTCGGAA
 GATGAACCTGACCCGGGGATCAACCTGAGAAAAATTGCTGAGCTCATGCCAGGAGCATCAGGGGCTGAA
 GTGAAGGGCGTGTGCACAGAAGCTGGCATGTATGCCCTGCGAGAACGGCGAGTCCATGTCACTCAGGAGG
 ACTTTGAGATGGCAGTAGCCAAGGTCATGCAGAAGGACAGTGAGAAAAACATGTCCATCAAGAAATTATG
 GAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC233976 representing NM_001199163
 Red=Cloning site Green=Tags(s)

MELEEGKAGSGLRQYYLSKIEELQLIVNDKSQNLRRLLQAQRNELNAKVRLREELQLLQEQGSYVGEVVR
 AMDKKKVLVKVHPEGKFVVDVDKNIDINDVTPNCRVALRNDSYTLHKILPNKVDPLVSLMMVEKVPDSTY
 EMIGGLDKQIKEIKEVIELPVKHPELFEALGIAQPKGVLLYGPPTGKTLARAVAHHTDCTFIRVSGSE
 LVQKFIGEGARMVRELFVMAREHAPSIIFMDEIDSIGSSRLEGGSGDSEVQRTMLELLNQLDGFATKN
 IKVIMATNRIDILDSALLRPGRIDRKIEFPPNNEEARLDILKIHSRKMNLTRGINLRKIAELMPGASGAE
 VKGVCTEAGMYALRERRVHVTQEDFEMAVAKVMQKDSEKNMSIKKLWK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001199163

ORF Size: 1194 bp

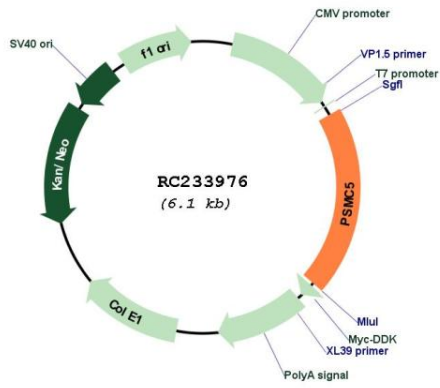
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001199163.1, NP_001186092.1</u>
RefSeq Size:	1507 bp
RefSeq ORF:	1197 bp
Locus ID:	5705
UniProt ID:	<u>P62195</u>
Cytogenetics:	17q23.3
Protein Families:	Druggable Genome
Protein Pathways:	Proteasome
MW:	45.2 kDa
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>

Product images:



Circular map for RC233976