

Product datasheet for **RG233976**

PSMC5 (NM_001199163) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PSMC5 (NM_001199163) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PSMC5
Synonyms: p45; p45/SUG; RPT6; S8; SUG-1; SUG1; TBP10; TRIP1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG233976 representing NM_001199163
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCTGGAGGAGGGGAAGGCAGGCAGCGGACTCCGCCAATATTATCTGTCCAAGATTGAAGAACTCC
 AGCTGATTGTGAATGATAAGAGCCAAAACCTCCGGAGGCTGCAGGCACAGAGGAACGAACAAATGCTAA
 AGTTCCGCTATTGCGGGAGGAGCTACAGCTGCTGCAGGAGCAGGGCTCCTATGTGGGGGAAGTAGTCCGG
 GCCATGGATAAGAAGAAAGTGTGGTCAAGGTACATCCTGAAGTAAATTTGTTGTAGACGTGGACAAAA
 ACATTGACATCAATGATGTGACACCCAATTGCCGGTGGCTCTAAGGAATGACAGCTACACTCTGCACAA
 GATCCTGCCCAACAAGGTAGACCCATTAGTGCTACTGATGATGGTGGAGAAAGTACCAGATTCAACTTAT
 GAGATGATTGGTGGACTGGACAAACAGATCAAGGAGATCAAAGAAGTATCGAGCTGCCTGTAAAGCATC
 CTGAGCTCTTGAAGCACTGGGCATTGCTCAGCCCAAGGGAGTGTGCTGTATGGACCTCCAGGCACTGG
 GAAGACTGTTGGCCCGGGCTGTGGCTCATCATACGGACTGTACCTTTATTCGTGTCTCTGGCTCTGAA
 CTGGTACAGAAATTCATAGGGGAAGGGCAAGAATGGTGGAGGAGCTGTTTGTATGGCACGGGAACATG
 CTCCATCTATCATCTTCATGGACGAAATCGACTCCATCGGCTCCTCGGGCTGGAGGGGGTTCTGGAGG
 GGACAGTGAAGTGCAGCGCACGATGCTGGAGTTGCTCAACCAGCTCGACGGCTTTGAGGCCACCAAGAAC
 ATCAAGTTATCATGGCTACTAATAGGATTGATATCCTGGACTCGGCATGCTTCCGCCAGGGCGCATTG
 ACAGAAAAATGAATCCACCCCAATGAGGAGGCCCGCTGGACATTTTGAAGATTCATTCTCGGAA
 GATGAACCTGACCCGGGGATCAACCTGAGAAAAATTGCTGAGCTCATGCCAGGAGCATCAGGGGCTGAA
 GTGAAGGGCGTGTGCACAGAAGCTGGCATGTATGCCCTGCGAGAACGGCGAGTCCATGTCACTCAGGAGG
 ACTTTGAGATGGCAGTAGCCAAGGTCATGCAGAAGGACAGTGAGAAAAACATGTCCATCAAGAAATTATG
 GAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233976 representing NM_001199163
 Red=Cloning site Green=Tags(s)

MELEEGKAGSGLRQYYLSKIEELQLIVNDKSQNLRRLLQAQRNELNAKVRLREELQLLQEQGSYVGEVVR
 AMDKKKVLVKVHPEGKFVVDVDKNIDINDVTPNCRVALRNDSTYHLKILPNKVDPLVSLMMVEKVPDSTY
 EMIGGLDKQIKEIKEVIELPVKHPPELFEALGIAQPKGVLLYGPPTGKTLARAVAHHTDCTFIRVSGSE
 LVQKFIGEGARMVRELFVMAREHAPSIIFMDEIDSIGSSRLEGGSGDSEVQRTMLELLNQLDGFATKN
 IKVIMATNRIDILDSALLRPGRIDRKIEFPPPNEEARLDILKIHSRKMNLTRGINLRKIAELMPGASGAE
 VKGVCTEAGMYALRERRVHVTQEDFEMAVAKVMQKDSEKNMSIKLWK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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:

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_001199163.1](#), [NP_001186092.1](#)

RefSeq Size: 1507 bp

RefSeq ORF: 1197 bp

Locus ID: 5705

UniProt ID: [P62195](#)

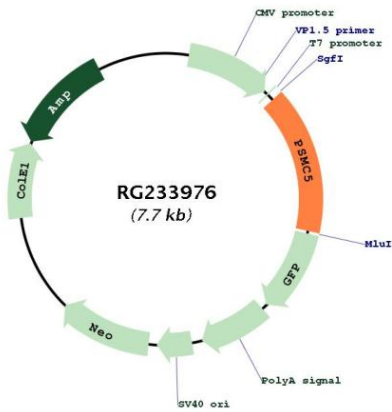
Cytogenetics: 17q23.3

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]

Product images:



Circular map for RG233976