

Product datasheet for **RC204913**

PSMD5 (NM_005047) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMD5 (NM_005047) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PSMD5
Synonyms:	S5B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC204913 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCAGCCCAGGCTTTGGCGCTGCTGAGAGAGGTAGCGAGGCTGGAAGCGCCGCTGGAGGAGCTACGCG
 CGCTTCACTCCGTGCTGCAGGCAGTGCCGCTCAACGAGCTTCGCCAGCAAGCGCGGAGCTGCGCCTCGG
 CCCGCTTCTCCTGCTTAACGAGAACCATAGGGAAAAGACTACTTTGTGTGTATCCATTCTGGAGAGA
 TTGCTCCAAGCTATGGAACCGGTTACGTGGCCCGGAACCTCAGGGTTGACCTGCAGAGGGGACTAATTC
 ACCCTGATGATTCTGAAAAATCCTCACTCTTCCAGATTGGAAGAATTGTTGAAAATTCTGATGCTGT
 TACTGAGATTCTAAATAATGCTGAATTACTAAAACAAATGTTTATTGCATTGGTGGAGAGAATCTATCT
 GTAGCAAAAGCGGCTATCAAATCCCTGTCAAGAATACCTAACCAGCTGGACTGGAGGCTTTATTTG
 AAAGCAATCTGCTGGATGATTTGAAAAGTGAATGAAAACAAATGACATTGTTGATACAGGGTGTATGA
 GCTAATTATAGAGATTTCTCCGTGTACCAGAATCTTTAACTACTGTACCACAAGTGGATTGGTAACC
 CAGCTCCTGAGAGAGCTGACTGGTGAGGATGTGTTGGTCAAGCCACCTGTATAGAAATGGTGACATCAC
 TGGCATATACTCATCATGGGCGACAATATCTTGCTCAAGAAGGAGTAATTGACCAAAATTTCTAATATAAT
 TGTTGGGGCAGATTACAGACCTTTCTCTAGCTTCTATCTGCCAGGATTCGTGAAGTTTTTTGAAACCTG
 GCTGTCATGGATAGTCCCTCAACAGATCTGTGAGCGTTATCCTATCTTTGTGGAAGGCTTTGAAATGA
 TAGAAAGTCAGGACCCCACTATGATTGGTGTAGCTGTAGACACAGTTGGAATCTTGGGATCCAATGTTGA
 AGGAAAACAGTTTTACAGAAAACAGGAACTCGCTTTGAACGCTTGCTTATGAGAATAGGACATCAATCA
 AAGAATGCCCCAGTGGAGCTAAAAATTAGATGTTGGATGCAATTCATCTCTTCTGTACTTACCACCTG
 AGCAGCAGACTGATGACCTTCTGAGGATGACAGAATCCTGGTTTTCTTTATCTCGGGTCCACTGGA
 GCTCTTCCGTGGCATTAGTAGTCAGCCCTTCCCTGAACACTGCTGCCTTAAAAGTGTTCAGGGCC
 ATTGCAAACCAACCCTGGGCTCAGAAAATTATGTTTAAACAGTCCAGGTTTTGTAGAATATGTGGTGACC
 GGTCTGTGGAGCATGACAAAGCTTCAAAGGATGCCAAATATGAACTAGTAAAAGCACTTGCCAATCCAA
 GACAATTGCAGAAATCTTTGGGAACCCAAATTATTTGAGGCTCAGAACTTACCTGAGTGAAGGGCCATAC
 TATGTGAAACCTGTTCCACGACAGCAGTAGAAGGAGCCGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204913 protein sequence
 Red=Cloning site Green=Tags(s)

MAAQALALLREVARLEAPLEELRALHSVLQAVPLNELRQQAELRLGPLFSLLENHREKTTLCVSI
 LLQAMEPVHVARNLRVDLQRGLIHPDSSVKILTLISQIGRIVENS DAVTEILNNAELLKQIVY
 CIGGENLS VAKAAIKSLSRISLTQAGLEALFESNLLDDLKSMKTNDIVRYRYVELIIEISSV
 SPESLNYCTTSSGLVT QLLREL TGEDVLRATCIEMVTSLAYTHHGRQYLAQEGVIDQISNII
 VGADSDPFSSFYLPGFVKFFGNL AVMDSPQQICERYPIFVEKVFEMIESQDPTMIGVAVD
 TVGILGNSVEGKQVLQKTGTRFRERLLMRIGHQS KNAPVELKIRCLDAISSLLYLPPEQ
 QTDLLRMTESWFSLSRDPLELFRGISSQPFPELHCAALKVFTA IANQPWAQKLMFN
 SPGFVEYVVDRSVEHDKASKDAKVELVKALANSKTI AEIFGNPNYLRLR TYLSEGPY
 YVKPVSTTAVEGAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6062_h10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_005047

ORF Size: 1512 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_005047.4](#)

RefSeq Size: 3504 bp

RefSeq ORF: 1515 bp

Locus ID: 5711

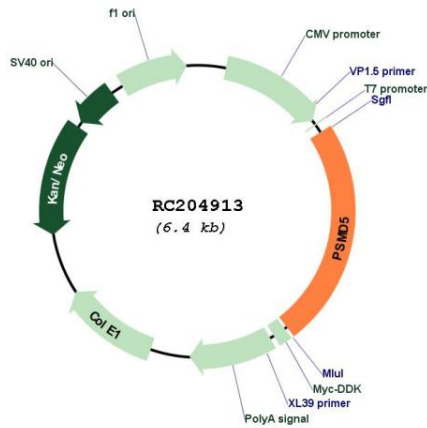
UniProt ID: [Q16401](#)

Cytogenetics: 9q33.2

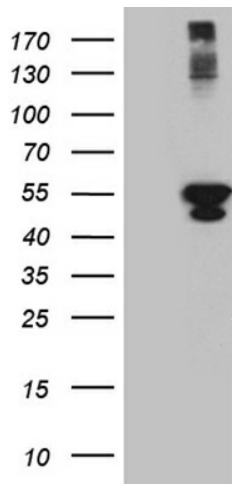
MW: 56.2 kDa

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. This gene encodes a non-ATPase subunit of the 19S regulator base that functions as a chaperone protein during 26S proteasome assembly. [provided by RefSeq, Jul 2012]

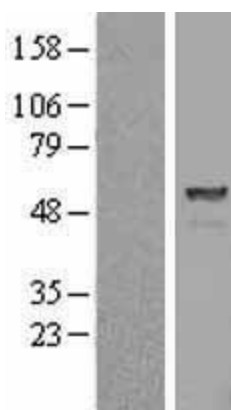
Product images:



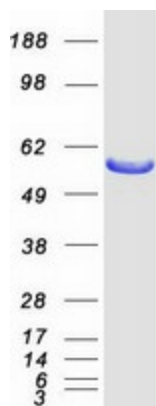
Circular map for RC204913



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PSMD5 (Cat# RC204913, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PSMD5(Cat# [TA811921]). Positive lysates [LY401563] (100ug) and [LC401563] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401563]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204913 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PSMD5 protein (Cat# [TP304913]). The protein was produced from HEK293T cells transfected with PSMD5 cDNA clone (Cat# RC204913) using MegaTran 2.0 (Cat# [TT210002]).