OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC200037

PSMD13 (NM_002817) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMD13 (NM_002817) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PSMD13
Synonyms:	HSPC027; p40.5; Rpn9; S11
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC200037 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAAGGACGTACCGGGCTTCCTACAGCAGAGCCAGAGCTCCGGGCCCGGGCAGCCCGCTGTGTGGCACC GTCTGGAGGAGCTCTACACGAAGAAGTTGTGGCATCAGCTGACACTTCAGGTGCTTGATTTTGTGCAGGA TCCGTGCTTTGCCCAAGGAGATGGTCTCATTAAGCTTTATGAAAACTTTATCAGTGAATTTGAACACAGG GTGAATCCTCTGTCCCTCGTGGAAATCATTCTTCACGTAGTTAGACAGATGACTGATCCTAATGTGGCTC TTACTTTTCTGGAAAAGACTCGTGAGAAGGTGAAAAGTAGTGATGAGGCAGTGATCCTGTGTAAAACAGC AATTGGAGCTCTAAAATTAAACATCGGGGACCTACAGGTTACAAAGGAAACAATTGAAGATGTTGAAGAA ATGCTCAACAACCTTCCTGGTGTGACATCGGTTCACAGTCGTTTCTATGATCTCTCCAGTAAATACTATC AAACAATCGGAAACCACGCGTCCTACTACAAAGATGCTCTGCGGTTTTTGGGCTGTGTTGACATCAAGGA TCTACCAGTGTCTGAGCAGCAGGAGAGAGCCTTCACGCTGGGGCTAGCAGGACTTCTCGGCGAGGGAGTT TTTAACTTTGGAGAACTCCTCATGCACCCTGTGCTGGAGTCCCTGAGGAATACTGACCGGCAGTGGCTGA TTGACACCCTCTATGCCTTCAACAGTGGCAACGTAGAGCGGTTCCAGACTCTGAAGACTGCCTGGGGCCA GCAGCCTGATTTAGCAGCTAATGAAGCCCAGCTTCTGAGGAAAATTCAGTTGTTGTGCCTCATGGAGATG ACTTTCACACGACCTGCCAATCACAGACAACTCACTTTTGAAGAAATTGCCAAAAGTGCTAAAATCACAG TGAATGAGGTGGAGCTTCTGGTGATGAAGGCCCTTTCGGTGGGGCTGGTGAAAGGCAGTATAGACGAGGT GGACAAACGAGTCCACATGACCTGGGTGCAGCCCCGAGTGTTGGATTTGCAACAGATCAAGGGAATGAAG GACCGCCTGGAGTTCTGGTGCACGGATGTGAAGAGCATGGAGATGCTGGTGGAGCACCAGGCCCATGACA TCCTCACC AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC TGGATTACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC200037 protein sequence
Red=Cloning site Green=Tags(s)

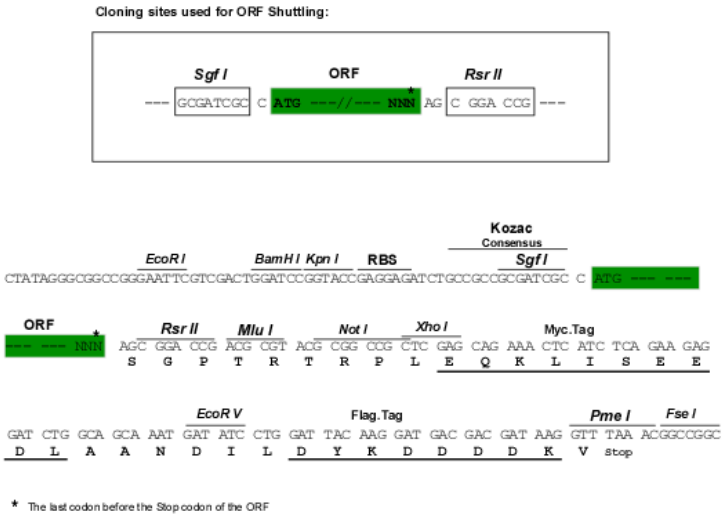
MKDVPGFLQQSQSSGPGQPAVWHRLEELYTKKLWHQLTLQVLDFVQDPCFAQGDGLIKLYENFISEFEHR
VNPLSLVEIILHVVRQMTDPNVALTFLEKTREKVKSSDEAVILCKTAIGALKLNIGDLQVTKETIEDVEE
MLNNLPGVTSVHSRFYDLSSKYYQTIGNHASYYKDALRFLGCVDIKDLPVSEQQERAFTLGLAGLLGEGV
FNFGELLMHPVLESLRNTDRQWLIDTLYAFNSGNVERFQTLKTAWGQQPDLAANEAQLLRKIQLLCLMEM
TFTRPANHRQLTFEEIAKSAKITVNEVELLVMKALSVGLVKGSIDEVDKRVHMTWVQPRVLDLQQIKGMK
DRLEFWCTDVKSMEMLVEHQAHDILT

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

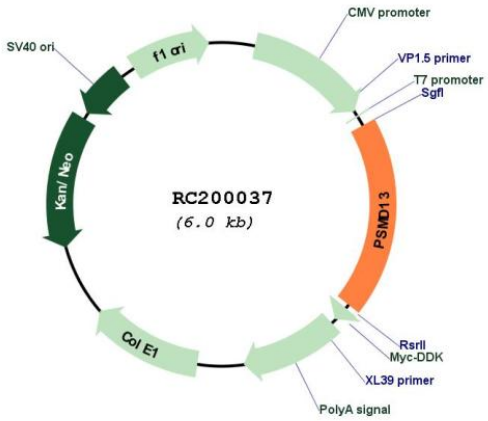
Chromatograms: https://cdn.origene.com/chromatograms/mk6190_e04.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:

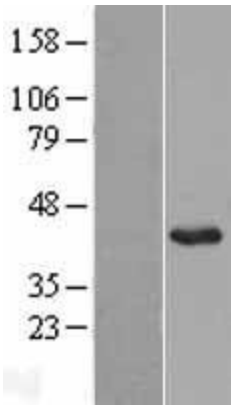


Plasmid Map:

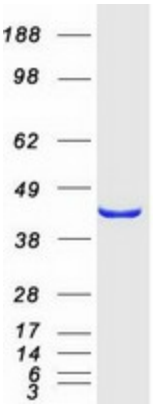


ACCN:	NM_002817
ORF Size:	1128 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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.
RefSeq:	NM_002817.2, NP_002808.2
RefSeq Size:	1757 bp
RefSeq ORF:	1131 bp
Locus ID:	5719
UniProt ID:	Q9UNM6
Domains:	PCI
Protein Pathways:	Proteasome
MW:	42.9 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. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes a non-ATPase subunit of the 19S regulator. Two transcripts encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

Product images:



Western blot validation of overexpression lysate (Cat# [LY400998]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200037 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PSMD13 protein (Cat# [TP300037]). The protein was produced from HEK293T cells transfected with PSMD13 cDNA clone (Cat# RC200037) using MegaTran 2.0 (Cat# [TT210002]).