

Product datasheet for **RC231442**

PSMD1 (NM_001191037) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMD1 (NM_001191037) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PSMD1
Synonyms:	P112; Rpn2; S1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC231442 representing NM_001191037
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGATCACCTCGGCCGCTGGAATTATTTCTCTTCTGGATGAAGATGAACACAGCTTAAGGAATTTGCAC
 TACACAAATTGAATGCAGTTGTTAATGACTTCTGGGCAGAAATTTCCGAGTCCGTAGACAAATAGAGGT
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 CCAGCAGTTTTTGTATCTGTAATCCAGAATCTTCGAACTGTTGGCACCCCTATTGCTTCTGTGCCTGGA
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 CCAGAACCCCAAGAACCTTTGAGTATATTGATGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGAT AAGGTTTAA

Protein Sequence: >RC231442 representing NM_001191037
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MITSAAGIISLLDEDEPQLKEFALHKLNAVVNDFAEISESVDKIEVL YEDEGFRSRQFAALVASKVFYH
 LGAFEEESLNYALGAGDLFNVNDNSEYVETIIAKCIDHYTKQCVENADLPEGEKPIDQRLEGIVNKMFOR
 CLDDHKYKQAIGIALETRRLDVFEKTILESNDVPGMLAYSLLKCLMSLMQNKQFRNKVLRVLVKIYMNLEK
 PDFINVCQCLIFLDDPQAVSDILEKLKEDNLLMAYQICFDLYESASQQFLSSVIQNLRTVGTPIASVPG
 STNTGTVPGEKSDSMETEETSSAFVGKTPEASPEPKDQTLKMIKILSGEMAIELHLQFLIRNNNDL
 MILKNTKDAVRNSVCHTATVIANSFMHCGTTSQDQLRDNLEWLRATNWKATATASLGVIHKGHEKEAL
 QLMATYLPKDTSPGSAYQEGGLYALGLIHANHGDIIDYLLNQLKNASNDIVRHGGSGLGLAAMGTAR
 QDVYDLLKTNLYQDDAVTGEAAGLALGLVMLGSKNAQAIEDMVGYAQETQHEKILRGLAVGIALVMYGRM
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 EQCPSVSVLLSESYNPHVRYGAAMALGICCACTGNKEAINLLEPMTNDPVNYVRQGALIASALIMIQQTE
 ITCPKVNQFRQLYSKVINDKHDDVMAKFGAILAQGILDAGGHVNTISLQSRGTGHTHMPVSVGVLVFTQFW
 FWFPLSHFLSLAYTPTCVIGLNKDLKVSTAVLSITAKAKKKEKEKEKEKEEKEMEVDEAEKKEKEKKEP
 EPNFQLLDNPARVMPAQLKVLTMPETCRYQPFKPLSIGGIIILKDTSEDI EELVEPVAAHGPKIEEEEQE
 PEPPEPFEYIDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

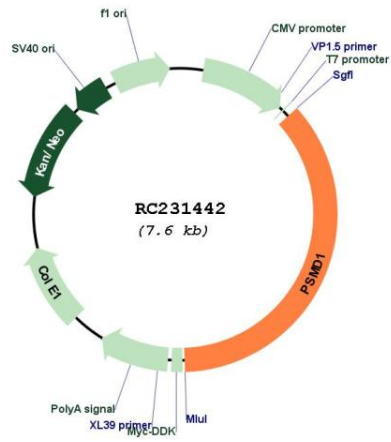


ACCN: NM_001191037

ORF Size: 2766 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:	NM_001191037.1 , NP_001177966.1
RefSeq ORF:	2769 bp
Locus ID:	5707
UniProt ID:	Q99460
Cytogenetics:	2q37.1
Protein Pathways:	Proteasome
MW:	102.7 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 the largest non-ATPase subunit of the 19S regulator lid, which is responsible for substrate recognition and binding. There is evidence that this proteasome and its subunits interact with viral proteins, including those of coronaviruses. Alternatively spliced transcript variants have been found for this gene.[provided by RefSeq, Aug 2020]

Product images:



Circular map for RC231442