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Product datasheet for RC201201

PSMD11 (NM_002815) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMD11 (NM_002815) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PSMD11
Synonyms:	p44.5; Rpn6; S9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC201201 representing NM_002815
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCGGCGGCGGTGGTGGAGTTCCAGAGAGCCCAGTCTCTACTCAGCACCGACCGGGAGGCCTCCA
TCGACATCCTCCACTCCATCGTGAAGCGTGACATTCAGGAAAACGATGAAGAGGCAGTGCAAGTCAAAGA
GCAGAGCATCCTGGAACTGGGATCTCTCCTGGCAAAGACTGGACAAGCTGCAGAGCTTGGAGGACTCCTG
AAGTATGTACGACCCTTCTTGAATTCCATCAGCAAGGCTAAAGCAGCTCGCCTGGTCCGATCTCTTCTTG
ATCTGTTTCTTGATATGGAAGCAGCTACAGGGCAGGAGGTCGAGCTGTGTTTAGAGTGCATCGAATGGGC
CAAGTCAGAGAAAAGAACTTTCTTACGCCAAGCTTTGGAGGCAAGACTGGTGTCTTTGTACTTTGATACC
AAGAGGTACCAGGAAGCATTGCATTTGGGTTCTCAGCTGCTGCGGGAGTTGAAAAAGATGGACGACAAAG
CTCTTTTGGTGGAAGTACAGCTTTTAGAAAGCAAAACATACCATGCCCTGAGCAACCTGCCGAAAGCCCG
AGCTGCCTTAACTTCTGCTCGAACCACAGCAAATGCCATCTACTGCCCCCCTAAATTGCAGGCCACCTTG
GACATGCAGTCGGGTATTATCCATGCAGCAGAAGAGAAGGACTGGAAAACTGCGTACTCATACTTCTATG
AGGCATTTGAGGGTTATGACTCCATCGACAGCCCCAAGGCCATCACATCTCTGAAGTACATGTTGCTGTG
CAAAATCATGCTCAACACCCCAGAAGATGTCCAGGCTTTGGTGAGCGGGAAGCTTGCACTTCGGTATGCA
GGGAGGCAGACAGAAGCATTAAAATGCGTGGCTCAGGCTAGCAAGAACAGATCACTGGCAGATTTTGAAA
AGGCTCTGACAGATTACCGGGCAGAGCTCCGGGATGACCCAATCATCAGCACACACTTGGCCAAGTTGTA
TGATAACTTACTAGAACAGAATCTGATCCGAGTCATTGAGCCTTTTTCCAGAGTACAGATTGAACACATA
TCTAGTCTCATCAAACTCTCCAAGGCCGACGTGGAAAGGAAATTATCACAGATGATTCTTGACAAGAAAT
TTCATGGGATTTTGGACCAGGGGGAGGGTGTCCTGATTATTTTCGATGAACCCCCAGTAGATAAAACTTA
CGAAGCTGCTCTGGAAACAATTCAGAACATGAGCAAAGTAGTGGATTCCCTCTACAACAAAGCCAAGAAA
CTGACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201201 representing NM_002815
Red=Cloning site Green=Tags(s)

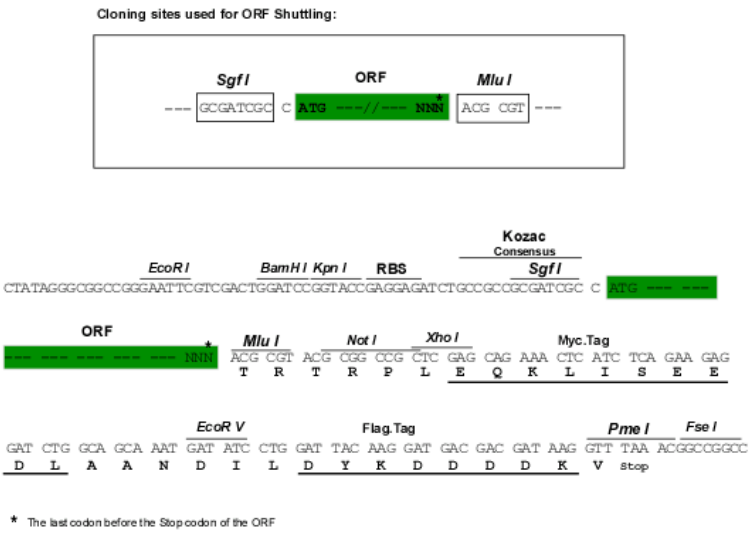
MAAAAVVEFQRAQSLLSTDREASIDILHSIVKRDIQENDEEAVQVKEQSILELGSLLAKTGQAAELGGLL
KYVRPFLNSISKAKAARLVRSLLDLFLDMEAATGQEVELCLECIEWAKSEKRTFLRQALEARLVSLYFDT
KRYQEALHLGSQLLRELKKMDDKALLVEVQLLESKTYHALSNLPKARAALTSARTTANAIYCPPKLQATL
DMQSGIIHAAEEKDWKTAYSYFYEAFEGYDSIDSPKAITSLKYMLLCKIMLNTPEDVQALVSGKLALRYA
GRQTEALKCVAQASKNRSLADFEKALTDYRAELRDDPIISTHLAKLYDNLLEQNLIRVIEPFSRVQIEHI
SSLIKLSKADVERKLSQMILDKKFHGILDQGEGVLIIFDEPPVDKTYEAALETIQNMSKVVDSLYNKAKK
LT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2901_b05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002815

ORF Size: 1266 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_002815.4

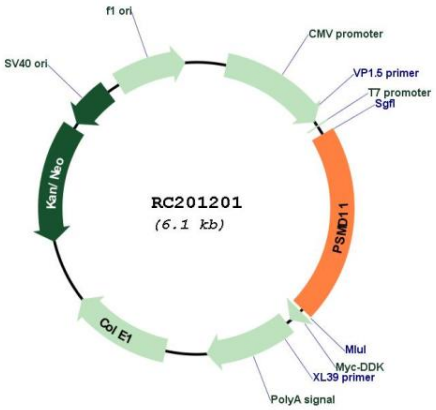
RefSeq Size: 1598 bp

RefSeq ORF: 1269 bp

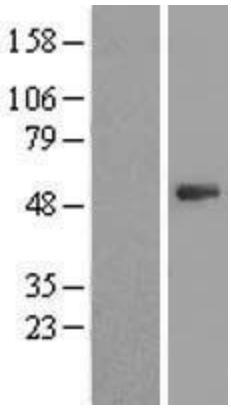
Locus ID: 5717

UniProt ID:	O00231
Cytogenetics:	17q11.2
Domains:	PCI
Protein Families:	Stem cell - Pluripotency
Protein Pathways:	Proteasome
MW:	47.3 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 member of the proteasome subunit S9 family that functions as a non-ATPase subunit of the 19S regulator and is phosphorylated by AMP-activated protein kinase. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Jul 2012]

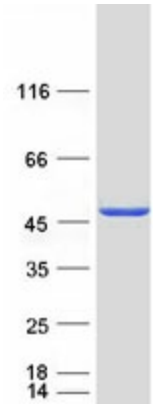
Product images:



Circular map for RC201201



Western blot validation of overexpression lysate (Cat# [LY419095]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201201 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PSMD11 protein (Cat# [TP301201]). The protein was produced from HEK293T cells transfected with PSMD11 cDNA clone (Cat# RC201201) using MegaTran 2.0 (Cat# [TT210002]).