

Product datasheet for **RC200436**

PSMD8 (NM_002812) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMD8 (NM_002812) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PSMD8
Synonyms:	HEL-S-91n; HIP6; HYPF; Nin1p; p31; Rpn12; S14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200436 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTACGAGCAACTCAAGGGCGAGTGGAACCGTAAAAGCCCCAATCTTAGCAAGTGCAGGGAAGAGCTGG
GTCGACTCAAGCTAGTTCTTCTGGAGCTCAACTTCTTGCCAACCCAGGGACCAAGCTGACCAAACAGCA
GCTAATCTGGCCCGTGACATACTGGAGATCGGGGCCAATGGAGCATCCTACGCAAGGACATCCCCTCC
TTCGAGCGCTACATGGCCAGCTCAAATGCTACTACTTTGATTACAAGGAGCAGCTCCCCGAGTCAGCCT
ATATGCACCAGCTCTTGGCCTCAACCTCCTCTCCTGCTGTCCAGAACCGGGTGGCTGAGTTCACAC
GGAGTTGGAGCGGCTGCCTGCCAAGGACATACAGACCAATGTCTACATCAAGCACCCAGTGTCCCTGGAG
CAATACCTGATGGAGGGCAGCTACAACAAAGTGTCTCCTGGCCAAGGGTAACATCCCCGCCGAGAGCTACA
CCTTCTTCATTGACATCCTGCTCGACACTATCAGGGATGAGATCGCTGGGTGCATCGAGAAGGCCTACGA
GAAAATCCTTTTCACTGAGGCCACCCGGATCCTCTTCTTCAACACACCCAAAAAGATGACAGACTACGCC
AAGAAGCGAGGGTGGTCTGGGCCCAACAACACTACTACAGTTTTGCCAGCCAGCAGCAGAAGCCGGAAG
ACACCACCATTCCTCCACAGAAGTGGCCAAACAGGTCATCGAGTATGCCCGGCGAGCTGGAGATGATCGT
C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC200436 protein sequence
Red=Cloning site Green=Tags(s)

MYEQLKGEWNRKSPNLSKCGEELGRLKLVLELNFLPTTGKLTQQLILARDILEIGAQWSILRKDIPS
 FERYMAQLKCYFDYKEQLPESAYMHQLLGLNLLFLLSQNRVAEFHTELERLPAKDIQTNVYIKHPVSLE
 QYLMEGSYNKVF LAKGNIPAESYTFIDILLDIRDEIAGCIEKAYEKILFTEATRILFFNTPKKMTDYA
 KKRGWVLGPNNYSFASQQKPEDTTIPSTELAKQVIEYARQLEMIV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6081_a02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_002812

ORF Size: 771 bp

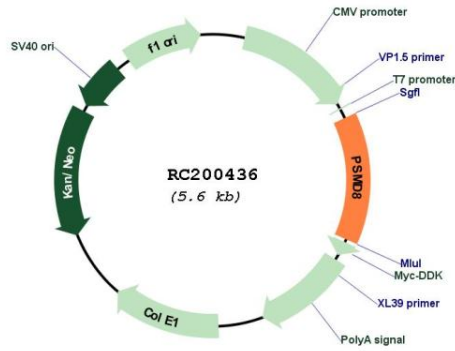
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

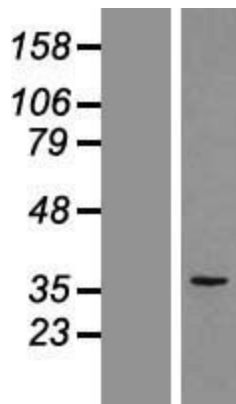
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_002812.3 , NP_002803.1
RefSeq Size:	1556 bp
RefSeq ORF:	1053 bp
Locus ID:	5714
UniProt ID:	P48556
Cytogenetics:	19q13.2
Domains:	Nin1_C
Protein Pathways:	Proteasome
MW:	30 kDa
Gene Summary:	<p>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. A pseudogene has been identified on chromosome 1. [provided by RefSeq, Jul 2008]</p>

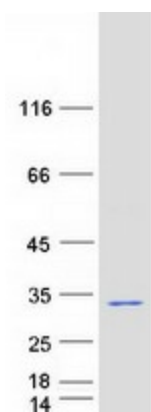
Product images:



Circular map for RC200436



Western blot validation of overexpression lysate (Cat# [LY419092]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200436 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PSMD8 protein (Cat# [TP300436]). The protein was produced from HEK293T cells transfected with PSMD8 cDNA clone (Cat# RC200436) using MegaTran 2.0 (Cat# [TT210002]).