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Product datasheet for SC337437

PSMD2 (NM_001278708) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMD2 (NM_001278708) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSMD2
Synonyms:	P97; RPN1; S2; TRAP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>NCBI ORF sequence for NM_001278708, the custom clone sequence may differ by one or more nucleotides

ATGACCATGAGTGGGGAGCGTGAGTGCCTCAAGTATCGGCTAGTGGGCTCCCAGGAGGAATTGGCATCAT
GGGGTCATGAGTATGTCAGGCATCTGGCAGGAGAAGTGGCTAAGGAGTGGCAGGAGCTGGATGACGCAGA
GAAGGTCCAGCGGGAGCCTCTGCTCACTCTGGTGAAGGAAATCGTCCCCTATAACATGGCCCACAATGCA
GAGCATGAGGCTTGCGACCTGCTTATGGAAATTGAGCAGGTGGACATGCTGGAGAAGGACATTGATGAAA
ATGCATATGCAAAGGTCTGCCTTTATCTCACCAGTTGTGTGAATTACGTGCCTGAGCCTGAGAACTCAGC
CCTACTGCGTTGTGCCCTGGGTGTGTTCCGAAAGTTTAGCCGCTTCCCTGAAGCTCTGAGATTGGCATTG
ATGCTCAATGACATGGAGTTGGTAGAAGACATCTTCACCTCCTGCAAGGATGTGGTAGTACAGAAACAGA
TGGCATTCATGCTAGGCCGGCATGGGGTGTTCCTGGAGCTGAGTGAAGATGTCGAGGAGTATGAGGACCT
GACAGAGATCATGTCCAATGTACAGCTCAACAGCAACTTCTTGGCCTTAGCTCGGGAGCTGGACATCATG
GAGCCCAAGGTGCCTGATGACATCTACAAAACCCACCTAGAGAACAACAGGTTTGGGGGCAGTGGCTCTC
AGGTGGACTCTGCCCGCATGAACCTGGCCTCCTCTTTTGTGAATGGCTTTGTGAATGCAGCTTTTGGCCA
AGACAAGCTGCTAACAGATGATGGCAACAAATGGCTTTACAAGAACAAGGACCACGGAATGTTGAGTGCA
GCTGCATCTCTTGGGATGATTCTGCTGTGGGATGTGGATGGTGGCCTCACCCAGATTGACAAGTACCTGT
ACTCCTCTGAGGACTACATTAAGTCAGGAGCTCTTCTTGCCTGTGGCATAGTGAACTCTGGGGTCCGGAA
TGAGTGTGACCCTGCTCTGGCACTGCTCTCAGACTATGTTCTCCACAACAGCAACACCATGAGACTTGGT
TCCATCTTTGGGCTAGGCTTGGCTTATGCTGGCTCAAATCGTGAAGATGTCCTAACACTGCTGCTGCCTG
TGATGGGAGATTCAAAGTCCAGCATGGAGGTGGCAGGTGTCACAGCTTTAGCCTGTGGAATGATAGCAGT
AGGGTCCTGCAATGGAGATGTAACTTCCACTATCCTTCAGACCATCATGGAGAAGTCAGAGACTGAGCTC
AAGGATACTTATGCTCGTTGGCTTCCTCTTGGACTGGGTCTCAACCACCTGGGGAAGGGTGAGGCCATCG
AGGCAATCCTGGCTGCACTGGAGGTTGTGTCAGAGCCATTCCGCAGTTTTGCCAACACACTGGTGGATGT
GTGTGCATATGCAGGCTCTGGGAATGTGCTGAAGGTGCAGCAGCTGCTCCACATTTGTAGCGAACACTTT
GACTCCAAAGAGAAGGAGGAAGACAAAGACAAGAAGGAAAAGAAAGACAAGGACAAGAAGGAAGCCCCTG
CTGACATGGGAGCACATCAGGGAGTGGCTGTTCTGGGGATTGCCCTTATTGCTATGGGGGAGGAGATTGG
TGCAGAGATGGCATTACGAACCTTTGGCCACTTGCTGAGATATGGGGAGCCTACACTCCGGAGGGCTGTA
CCTTTAGCACTGGCCCTCATCTCTGTTTCAAATCCACGACTCAACATCCTGGATACCCTAAGCAAATTCT
CTCATGATGCTGATCCAGAAGTTTCCTATAACTCCATTTTTGCCATGGGCATGGTGGGCAGTGGTACCAA
TAATGCCCGTCTGGCTGCAATGCTGCGCCAGTTAGCTCAATATCATGCCAAGGACCCAAACAACCTCTTC
ATGGTGCGCTTGGCACAGGGCCTGACACATTTAGGGAAGGGCACCCTTACCCTCTGCCCCTACCACAGCG
ACCGGCAGCTTATGAGCCAGGTGGCCGTGGCTGGACTGCTCACTGTGCTTGTCTCTTTCCTGGATGTTCG
AAACATTATTCTAGGCAAATCACACTATGTATTGTATGGGCTGGTGGCTGCCATGCAGCCCCGAATGCTG
GTTACGTTTGATGAGGAGCTGCGGCCATTGCCAGTGTCTGTCCGTGTGGGCCAGGCAGTGGATGTGGTGG
GCCAGGCTGGCAAGCCGAAGACTATCACAGGGTTCCAGACGCATACAACCCCAGTGTTGTTGGCCCACGG
GGAACGGGCAGAATTGGCCACTGAGGAGTTTCTTCCTGTTACCCCCATTCTGGAAGGTTTTGTTATCCTT
CGGAAGAACCCCAATTATGATCTCTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001278708

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001278708.1, NP_001265637.1
RefSeq Size:	2655 bp
RefSeq ORF:	2337 bp
Locus ID:	5708
UniProt ID:	Q13200
Cytogenetics:	3q27.1
Protein Families:	Druggable Genome
Protein Pathways:	Proteasome
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 one of the non-ATPase subunits of the 19S regulator lid. In addition to participation in proteasome function, this subunit may also participate in the TNF signalling pathway since it interacts with the tumor necrosis factor type 1 receptor. A pseudogene has been identified on chromosome 1. Alternative splicing results in multiple transcript variants of this gene. [provided by RefSeq, Jul 2013] Transcript Variant: This variant (2) differs in the 5' UTR and the 5' coding region and initiates translation at a downstream start codon, compared to variant 1. It encodes isoform 2, which is shorter at the N-terminus compared to isoform 1.