

Product datasheet for RC217826

PSMA8 (NM_001025096) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMA8 (NM_001025096) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PSMA8
Synonyms:	PSMA7L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217826 representing NM_001025096 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGCGTCTCGATATGACAGGGCGATCACTGTCTTCTCCCAGACGGACACCTTTTTCAAGTTGAATATGCCAGGAAGCGGTGAAGAAAGGATCCACCGCGTCGGAATTCGAGGTACCAATATAGTTGTTCTTGGGGTAGAAAAAATCTGTTGCCAAGCTTCAAGATGAAAGAACTGTGAGGAAAATTTGTGCCCTTGATGACCATGTCTGCATGGCTTTTGCAGGACTTACTGCTGATGCTAGAGTAGTAATAAACAGAGCCCGTGGAGTGCCAGAGCCATAAGCTTACGGTTGAGGACCCAGTCACTGTAGAATACATAACTCGCTTCATAGCAACTTTAAAGCAGAAATATACCAAAGCAATGGACGAAGACCTTTTGGTATTTCTGCCTAATTGTAGGTTTTGATGATGATGGTATCTCAAGATTGTATCAGACAGATCCTTCTGGTACTTATCATGCTTGAAGGCAATGCAATAGGCCGAAGTGCTAAAAGTTCGAGAATTTCTAGAAAAGAATTACACAGAAGATGCCATAGCAAGTGACAGTGAAGCTATCAAGTTAGCAATAAAAGCTTTGCTAGAAGTTGCCAGTCTGGTGAAAAAACATTGAAGCTGCTATAATAAGAAGAAATCAACCTTTGAAGATGTTTAGTGCAAAAAGAAGTTGAATTATATGTAAGTGAATAGAAAAGGAAAAGGAAGAAGCAGAGAAGAAAAATCAAAGAAATCTGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC217826 representing NM_001025096
 Red=Cloning site Green=Tags(s)

MASRYDRAITVFPDGHFLQVEYAQEA VKKGSTAVGIRGTNIVVLGVEKKSVAKLQDERTVRKICALDDH
 VCMAFAGLTADARVVINRARVECQSHKLTVEDPVTVEYITRFIATLKQKYTQSNRRPFGISALIVGFDD
 DGISRLYQTDPSGTYHAWKANAIGRSAKTVREFLEKNYTEDAIASDSEAIKLAIKALLEVVQSGGKNIEL
 AIIRRNQPLKMFSAKEVELYVTEIEKEKEEA EKKKSKKSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001025096

ORF Size: 750 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.

RefSeq: [NM_001025096.2](#)

RefSeq Size: 1827 bp

RefSeq ORF: 753 bp

Locus ID: 143471

UniProt ID: [Q8TAA3](#)

Cytogenetics: 18q11.2

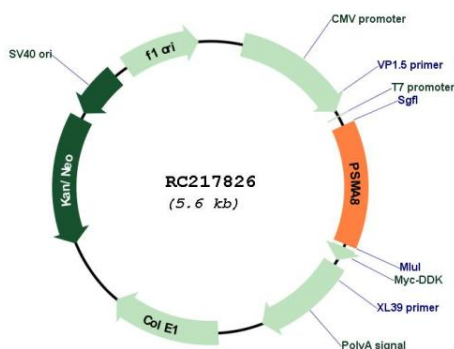
Protein Families: Druggable Genome, Protease

Protein Pathways: Proteasome

MW: 27.7 kDa

Gene Summary: Component of the spermatoproteasome, a form of the proteasome specifically found in testis that promotes degradation of histones, thereby participating actively to the exchange of histones during spermatogenesis. The proteasome is a multicatalytic proteinase complex which is characterized by its ability to cleave peptides with Arg, Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral or slightly basic pH (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC217826