

Product datasheet for **RG217826**

PSMA8 (NM_001025096) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMA8 (NM_001025096) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PSMA8
Synonyms:	PSMA7L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217826 representing NM_001025096 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTCTCGATATGACAGGGCGATCACTGTCTTCTCCCAGACGGACACCTTTTTCAAGTTGAATATG
CCCAGGAAGCGGTGAAGAAAGGATCCACCGCGTCGGAATTCGAGGTACCAATATAGTTGTTCTTGGGGT
AGAAAAAATCTGTTGCCAAGCTTCAAGATGAAAGAACTGTGAGGAAAATTTGTGCCCTTGATGACCAT
GTCTGCATGGCTTTTGCAGGACTTACTGCTGATGCTAGAGTAGTAATAAACAGAGCCCGTGTGGAGTGCC
AGAGCCATAAGCTTACGTTGAGGACCCAGTCACTGTAGAATACATAACTCGCTTCATAGCAACTTTAAA
GCAGAAATATACCAAAGCAATGGACGAAGACCTTTTGGTATTTCTGCCTAATTGTAGGTTTTGATGAT
GATGGTATCTCAAGATTGTATCAGACAGATCCTTCTGGTACTTATCATGCTTGAAGGCAATGCAATAG
GCCGAAGTGCTAAAAGTTCGAGAATTTCTAGAAAAGAATTACACAGAAGATGCCATAGCAAGTGACAG
TGAAGCTATCAAGTTAGCAATAAAAGCTTTGCTAGAAGTTGCCAGTCTGGTGGAAAAAACATTGAAGT
GCTATAATAAGAAGAAATCAACCTTTGAAGATGTTTAGTGCAAAAAGAAGTTGAATTATATGTAAGTAAA
TAGAAAAGGAAAAGGAAGAAGCAGAGAAGAAAAATCAAAGAAATCTGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG217826 representing NM_001025096
Red=Cloning site Green=Tags(s)

MASRYDRAITVFS PDGHLFQVEYAQEAVKKGSTAVGIRGTNIVVLGVEKKSVAKLQDERTVRKICALDDH
 VCMAFAGLTADARVVINRARVECQSHKLTVEDPVTVEYITRFIATLKQKYTQSNRRPFGISALIVGFDD
 DGISRLYQTDPSGTYHAWKANAIGRSAKTVREFLEKNYTEDAIASDSEAIKLAIKALLEVVQSGGKNIEL
 AIIRRNQPLKMFSAKEVELYVTEIEKEKEEAEEKKSKSV

TRTRPLE - GFP Tag - V

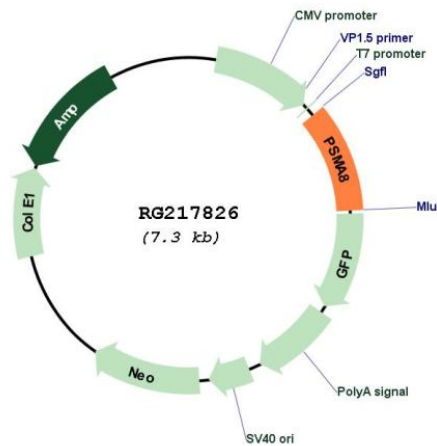
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



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:	<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_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
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]