

Product datasheet for **MG215785**

Psma8 (NM_001163609) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Psma8 (NM_001163609) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Psma8
Synonyms:	2410072D24Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG215785 representing NM_001163609 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTCTCGGTATGACAGGGCAATCACCGTCTTCTCCCAGATGGACACCTTTTCCAAGTGGAGTATG
CCCAGGAAGCAGTGAAGAAAGGCTCCACCGCGTTGGAATTCGAGGAACTAATATAGTTGTGCTTGGGGT
AGAAAAAAGTCAGTGGCCAAGCTTCAAGATGAAAGGACTGTGAGGAAAATCTGCGCTCTCGATGACCAT
GTCTGCATGGCTTTTGCAGGTCTGACAGCGGATGCTAGAGTGGTATCAGCAGAGCGGGTGGAGTGCC
AGAGCCACAAGCTCACAGTGGAGGATCCCGTCACTGTAGAGTATAAAGTTCGCTTTCATAGCGACGCTAAA
GCAGAAATATACCCAGAGCAATGGACGAAGGCCTTTTGGTATTTACGCCTAATTGTAGGCTTTGATGAT
GACGGCATCCCAAGATTGTATCAGACAGATCCCTCCGGGACTTACCACGCTTGGAAAGCAATGCAATAG
GCCGAAGTGCTAAAAGTGTCCGGGAATTTCTGGAAAAAATTACACAGAAGATGCAATTTCAAATGACAA
GGAAGCTATCAAATTAGCAATAAAAGCTTTGCTCGAAGTTGTCCAGTCTGGCGGAAAGAACATTGAAGT
GCTATAATAAGAAGAGATCAACCTTTGAAGATGTTTAGTGCCAAAGAAATTTGAAGTGGAGGTGAGTGAAA
TAGAAAGGAAAAGGACGAAGCAGAGAAGACAAAGTCAAAGAAGTCAACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG215785 representing NM_001163609
 Red=Cloning site Green=Tags(s)

MASRYDRAITVFPDGHFLQVEYAQEAVKKGSTAVGIRGTNIVVLGVEKKSVAKLQDERTVRKICALDDH
 VCMAFAGLTADARVVISRARVECQSHKLTVEDPVTVEYITRFIATLKQKYTQSNRRPFGISALIVGFDD
 DGIPRLYQTDPSGTYHAWKANAIGRSAKTVREFLEKNYTEDAISNDKEAIKLAIKALLEVVQSGGKNIEL
 AIIRRDQPLKMFSAKEIELEVSEIEREKDEAEKTKSKKST

TRTRPLE - GFP Tag - V

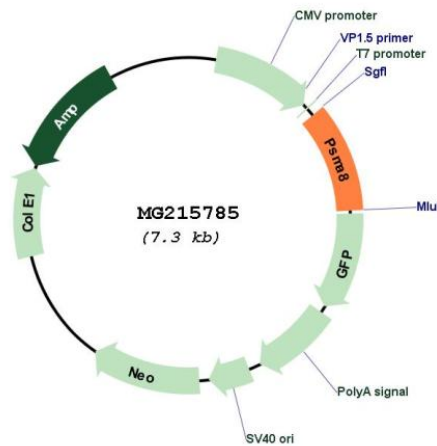
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001163609

ORF Size: 750 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001163609.1](#), [NP_001157081.1](#)

RefSeq Size: 1693 bp

RefSeq ORF: 753 bp

Locus ID: 73677

UniProt ID: [Q9CWH6](#)

Cytogenetics: 18 A1

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.[UniProtKB/Swiss-Prot Function]