

## Product datasheet for **RG212189**

### PSMA8 (NM\_144662) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PSMA8 (NM_144662) 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:	>RG212189 representing NM_144662 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGTCTCGATATGACAGGGCGATCACTGTCTTCTCCCAGACGGACACCTTTTTCAAGTTGAATATG  
CCCAGGAAGCGGTGAAGAAAGGATCCACCGCGGTCGGAATTCGAGGTACCAATATAGTTGTTCTTGGGGT  
AGAAAAAATCTGTTGCCAAGCTTCAAGATGAAAGAACTGTGAGGAAAATTTGTGCCCTTGATGACCAT  
GTCTGCATGGCTTTTGCAGTTTTGACAATTTTTATAGGACTTACTGCTGATGCTAGAGTAGTAATAAACA  
GAGCCCGTGTGGAGTGCCAGAGCCATAAGCTTACGGTTGAGGACCCAGTCACTGTAGAATACATAACTCG  
CTTCATAGCAACTTTAAAGCAGAAATATACCCAAAGCAATGGACGAAGACCTTTTGGTATTTCTGCCTTA  
ATTGTAGGTTTTGATGATGATGGTATCTCAAGATTGTATCAGACAGATCCTTCTGGTACTTATCATGCTT  
GGAAGGCAATGCAATAGGCCGAAGTGCTAAAAGTGTTCGAGAATTTCTAGAAAAGAATTACACAGAAGA  
TGCCATAGCAAGTGACAGTGAAGCTATCAAGTTAGCAATAAAGCTTTGCTAGAAGTTGTCCAGTCTGGT  
GGAAAAACATTGAACTTGCTATAATAAGAAGAAATCAACCTTTGAAGATGTTTAGTGCAAAAAGAAGTTG  
AATTATATGTAAGTAAATAGAAAAGGAAAAGGAAGAAGCAGAGAAGAAAAAATCAAAGAAATCTGTC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >RG212189 representing NM\_144662  
Red=Cloning site Green=Tags(s)

MASRYDRAITVFS PDGHLFQVEYAQEAVKKGSTAVGIRGTNIVVLGVEKKSVAKLQDERTVRKICALDDH  
 VCMAFVLTIFIGLTADARVVINRARVECQSHKLTVEDPVTVEYITRFIATLKQKYTQSNRRPFGISAL  
 IVGFDDDGISRLYQTDPSGTYHAWKANAIGRSAKTVREFLEKNYTEDAIASDSEAIKLAIKALLEVVQSG  
 GKNIELAIIRRNQPLKMFSAKEVELYVTEIEKEKEEAEEKKSKKSV

TRTRPLE - GFP Tag - V

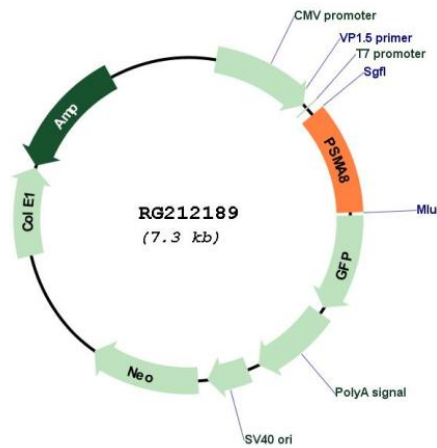
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_144662

**ORF Size:** 768 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_144662.3</a>
<b>RefSeq Size:</b>	1829 bp
<b>RefSeq ORF:</b>	771 bp
<b>Locus ID:</b>	143471
<b>UniProt ID:</b>	<a href="#">Q8TAA3</a>
<b>Cytogenetics:</b>	18q11.2
<b>Protein Families:</b>	Druggable Genome, Protease
<b>Protein Pathways:</b>	Proteasome
<b>Gene Summary:</b>	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]