

Product datasheet for **RG211847**

PSMA1 (NM_148976) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMA1 (NM_148976) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PSMA1
Synonyms:	HC2; HEL-S-275; NU; PROS30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211847 representing NM_148976 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGCTCAGCAAGGTGAAGTTTCGAAATCAGTATGACAATGATGTCAGTGTGGAGCCCCAGGGCA
GGATTCATCAAATTGAATATGCAATGGAAGCTGTTAAACAAGGTTTCAGCCACAGTTGGTCTGAAATCAA
AACTCATGCAGTTTTGGTTGCATTGAAAAGGGCGCAATCAGAGCTTGCAGCTCATCAGAAAAAATTTCTC
CATGTTGACAACCATATTGGTATCTCAATTGCGGGCTTACTGCTGATGCTAGACTGTTATGTAATTTTA
TGCCTCAGGAGTGTGGATTCCAGATTTGATTCGATAGACCACTGCCTGTGTCTCGTCTGTATCTCT
AATTGGAAGCAAGACCCAGATACCAACACAACGATATGGCCGGAGACCATATGGTGTGGTCTCCTTATT
GCTGGTTATGATGATATGGGCCCTCACATTTTCCAAACCTGTCCATCTGCTAACTATTTTACTGAGAG
CCATGTCCATTGGAGCCCGTTCCCAATCAGCTCGTACTTACTTGGAGAGACATATGTCTGAATTTATGGA
GTGTAATTTAAATGAACTAGTTAAACATGGTCTGCGTGCCTTAAGAGAGACGCTTCTGCAGAACAGGAC
CTGACTACAAAGAATGTTTCCATTGGAATTGTTGGTAAAGACTTGGAGTTTACAATCTATGATGATGATG
ATGTGTCTCCATTCCTGGAAGTCTTGAAGAAAGACCAGAGAAAGGCACAGCCTGCTCAACCTGCTGA
TGAACCTGCAGAAAAGGCTGATGAACCAATGGAACAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG211847 representing NM_148976
Red=Cloning site Green=Tags(s)

MQLSKVKFRNQYDNDVTWVSPQGRIHQIEYAMEAVKQGSATVGLKSKTHAVLVALKRAQSELAHQKIL
 HVDNHIGISIAGLTADARLLCNFMRQECLDSRFVDRPLPVSRLVSLIGSKTQIPTQRYGRRPYGVLLI
 AGYDDMGPHIFQTCPSSANYFDCRAMSIGARSQSARTYLERHMESEFMECNLNLVKHGLRALRETLPAEQD
 LTTKNVSIQVIGKDLFTIYDDDDVSPFLEGLEERPQRKAQPAQPADEPAEKADPEPMEH

TRTRPLE - GFP Tag - V

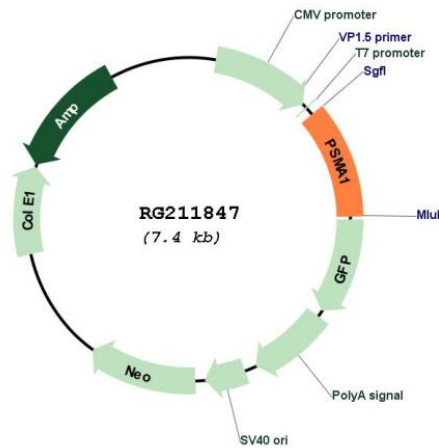
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_148976

ORF Size: 807 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_148976.2 , NP_683877.1
RefSeq Size:	1480 bp
RefSeq ORF:	810 bp
Locus ID:	5682
UniProt ID:	P25786
Cytogenetics:	11p15.2
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Proteasome
Gene Summary:	The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure 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. 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 a member of the peptidase T1A family, that is a 20S core alpha subunit. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Jan 2009]