

OriGene Technologies, Inc.

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Product datasheet for RG210717

Proteasome 20S alpha 5 (PSMA5) (NM_002790) Human Tagged ORF Clone

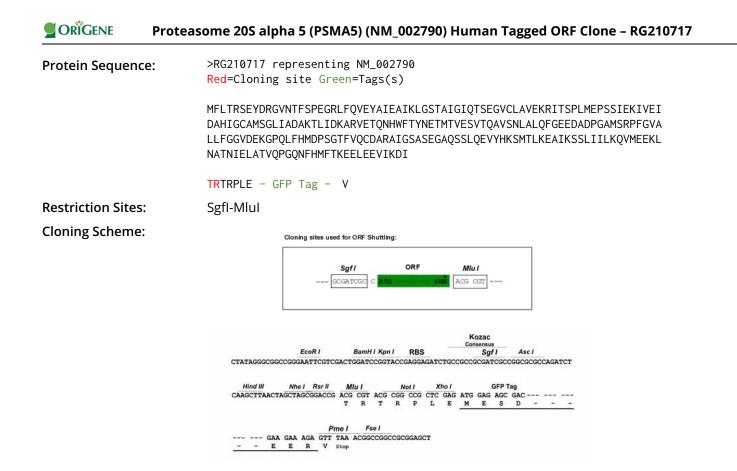
Product data:

Product Type:	Expression Plasmids
Product Name:	Proteasome 20S alpha 5 (PSMA5) (NM_002790) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PSMA5
Synonyms:	PSC5; ZETA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<pre>>RG210717 representing NM_002790 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGTTTCTTACCCGGTCTGAGTACGACAGGGGGCGTGAATACTTTTTCTCCCGAAGGAAG

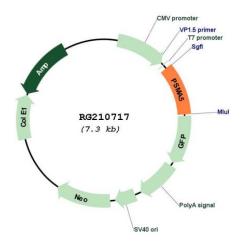
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Plasmid Map:



ACCN: ORF Size: NM_002790 723 bp

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GRIGENE Protea	some 20S alpha 5 (PSMA5) (NM_002790) Human Tagged ORF Clone – RG210717
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. <u>More info</u>
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 002790.4</u>
RefSeq Size:	1023 bp
RefSeq ORF:	726 bp
Locus ID:	5686
UniProt ID:	<u>P28066</u>
Cytogenetics:	1p13.3
Domains:	proteasome
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. Multiple alternatively spliced transcript variants encoding two distinct isoforms have been

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found for this gene. [provided by RefSeq, Dec 2010]