

### Product datasheet for RC209976L1

#### OriGene Technologies, Inc.

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#### Proteasome subunit alpha type 6 (PSMA6) (NM 002791) Human Tagged Lenti ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** Proteasome subunit alpha type 6 (PSMA6) (NM\_002791) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

**Symbol:** Proteasome subunit alpha type 6

None

Synonyms: IOTA; p27K; PROS27

Mammalian Cell

Selection:

**Vector:** pLenti-C-Myc-DDK (PS100064) **E. coli Selection:** Chloramphenicol (34 ug/mL)

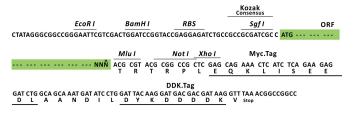
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC209976).

Sequence:

Restriction Sites: Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF.

ACCN: NM\_002791

ORF Size: 738 bp





# Proteasome subunit alpha type 6 (PSMA6) (NM\_002791) Human Tagged Lenti ORF Clone – RC209976L1

**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:** 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:** <u>NM 002791.1</u>

 RefSeq Size:
 1091 bp

 RefSeq ORF:
 741 bp

 Locus ID:
 5687

 UniProt ID:
 P60900

Cytogenetics: 14q13.2

**Domains:** proteasome

**Protein Families:** Druggable Genome, Protease, Stem cell - Pluripotency

Protein Pathways: Proteasome MW: 27.4 kDa

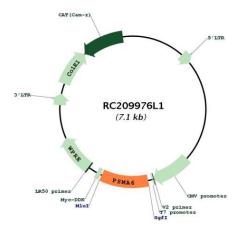
**Gene Summary:** The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S

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 transcript variants encoding several different isoforms have been found for this gene. A pseudogene has been identified on the Y chromosome. [provided by RefSeq, Aug

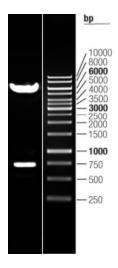
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## **Product images:**



Circular map for RC209976L1



Double digestion of RC209976L1 using Sgfl and Mlul  $\,$