

Product datasheet for SC201979

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Proteasome subunit alpha type 6 (PSMA6) (NM 002791) Human 3' UTR Clone

Product data:

Product Type: 3' UTR Clones

Product Name: Proteasome subunit alpha type 6 (PSMA6) (NM_002791) Human 3' UTR Clone

Vector: pMirTarget (PS100062)

Symbol: PSMA6

Synonyms: IOTA; p27K; PROS27

ACCN: NM_002791

Insert Size: 217 bp

Insert Sequence: >SC201979 3'UTR clone of NM_002791

The sequence shown below is from the reference sequence of NM_002791. The complete

sequence of this clone may contain minor differences, such as SNPs.

Blue=Stop Codon Red=Cloning site

GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG

TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC

CACCTTGTTGCTCTAGCAGAGAGAGACTAAACATTGTCGTTAGTTTACCAGATCCGTGATGCCACTTAC CTGTGTGTTTTGGTAACAACAAACCAACATCATGGAGGTCCCTGGATTGAAAAAAGGAGCCTCTCCCACTC CTCCTACCACCGAAGTGGTTAGGACTCTATATAAATAAAAAACAAGGCTTTTGGAAAAATAATTGCATCCT

GTTGTTTTCA

CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG

Restriction Sites: Sgfl-Mlul

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a

point of reference. Note that the complete sequence of this clone is largely the same as the

reference sequence but may contain minor differences, e.g., single nucleotide

polymorphisms (SNPs).

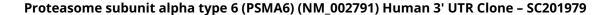
Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The

package also includes 100 pmols of both the corresponding 5' and 3' vector primers in

separate vials.

RefSeq: <u>NM 002791.3</u>





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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 2013]

Locus ID: 5687

MW: 8.3