

Product datasheet for **SC334113**

Proteasome subunit alpha type 6 (PSMA6) (NM_001282233) Human Untagged Clone

Product data:

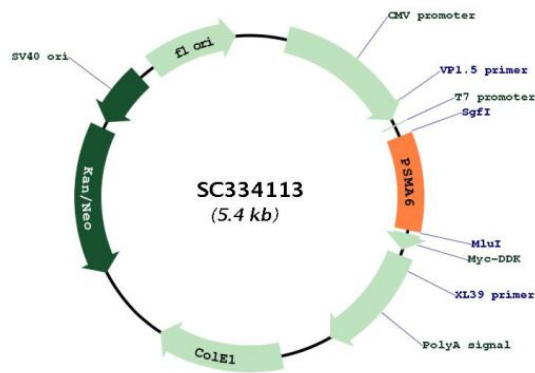
Product Type:	Expression Plasmids
Product Name:	Proteasome subunit alpha type 6 (PSMA6) (NM_001282233) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSMA6
Synonyms:	IOTA; p27K; PROS27
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC334113 representing NM_001282233. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACCGGAATGACAGCTGACAGCAGATCCCAGGTACAGAGGGCAGCTATGAGGCAGCTAACTGGAAA
TACAAGTATGGCTATGAGATTCCTGTGGACATGCTGTGTAAGAATTGCCGATATTTCTCAGGTCTAC
ACACAGAATGCTGAAATGAGGCCTCTGGTTGTTGTATGATTTTAATTGGTATAGATGAAGAGCAAGGC
CCTCAGGTATATAAGTGTGATCCTGCAGGTTACTACTGTGGGTTAAAGCCACTGCAGCGGGAGTTAAA
CAAAGTGAAGTCAACCAGCTTCTTGAAGAAAAAGTGAAGAAGAAATTTGATTGGACATTTGAACAGACA
GTGAAACTGCAATTACATGCCTGTCTACTGTTCTATCAATTGATTTCAAACCTCAGAAATAGAAGTT
GGAGTAGTGACAGTTGAAATCCTAAATTCAGGATTCTTACAGAAGCAGAGATTGATGCTCACCTTGT
GCTCTAGCAGAGAGAGACTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCC
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Restriction Sites: Sgfl-Mlul



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Plasmid Map:


ACCN: NM_001282233

Insert Size: 504 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [NM_001282233.1](#)

RefSeq Size: 996 bp

RefSeq ORF:	504 bp
Locus ID:	5687
UniProt ID:	P60900
Cytogenetics:	14q13.2
Protein Families:	Druggable Genome, Protease, Stem cell - Pluripotency
Protein Pathways:	Proteasome
MW:	18.8 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 2013]

Transcript Variant: This variant (3) lacks an alternate exon compared to variant 1. This difference causes translation initiation at a downstream AUG and results in an isoform (b) with a shorter N-terminus compared to isoform a. Variants 2 and 3 both encode the same isoform (b).