

Product datasheet for RC236219

Proteasome subunit alpha type 6 (PSMA6) (NM_001282233) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Proteasome subunit alpha type 6 (PSMA6) (NM_001282233) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PSMA6
Synonyms: IOTA; p27K; PROS27
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236219 representing NM_001282233
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACCGAATGACAGCTGACAGCAGATCCCAGGTACAGAGGGCACGCTATGAGGCAGCTAACTGGAAT
 ACAAGTATGGCTATGAGATTCCTGTGGACATGCTGTGTAAGAATTGCCGATATTTCTCAGGTCTACAC
 ACAGAATGCTGAAATGAGGCCTCTGGTTGTTGTATGATTTTAATTGGTATAGATGAAGAGCAAGGCCCT
 CAGGTATATAAGTGTGATCCTGCAGTTACTACTGTGGGTTTAAAGCCACTGCAGCGGGAGTTAAACAAA
 CTGAGTCAACCAGCTTCCTTGAAGAAAAAGTGAAGAAGAAATTTGATTGGACATTTGAACAGACAGTGGA
 AACTGCAATTACATGCCTGTCTACTGTTCTATCAATTGATTTCAAACCTTCAGAAATAGAAGTTGGAGTA
 GTGACAGTTGAAAATCCTAAATTCAGGATTCCTACAGAAGCAGAGATTGATGCTCACCTGTTGCTCTAG
 CAGAGAGAGAC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236219 representing NM_001282233
 Red=Cloning site Green=Tags(s)

MTGMTADSRVQVQRARYEAAWVYKYGYEIPVDMLCKRIADISQVYVQNAEMRPLGCCMILIGIDEEQGP
 QVYKCDPAGYCGFKATAAGVKQTESTSFLEKKVKKKFDWTFEQTVETAITCLSTVLSIDFKPSEIEVGV
 VTVENPKFRILTEAIDAHLVALAERD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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:	<u>NM_001282233.1</u> , <u>NP_001269162.1</u>
RefSeq Size:	996 bp
RefSeq ORF:	504 bp
Locus ID:	5687
UniProt ID:	<u>P60900</u>
Cytogenetics:	14q13.2
Protein Families:	Druggable Genome, Protease, Stem cell - Pluripotency
Protein Pathways:	Proteasome
MW:	19.3 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]