

Product datasheet for RC203260

PSMA1 (NM_002786) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMA1 (NM_002786) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PSMA1
Synonyms:	HC2; HEL-S-275; NU; PROS30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203260 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTCGAAATCAGTATGACAATGATGTCACTGTTTGGAGCCCCAGGGCAGGATTCATCAAATTGAAT
ATGCAATGGAAGCTGTTAAACAAGGTTACGCCACAGTTGTTCTGAAATCAAAAACATGCAGTTTTGGT
TGCATTGAAAAGGGCGCAATCAGAGCTTGACGCTCATCAGAAAAAATTCTCCATGTTGACAACCATATT
GGTATCTCAATTGCGGGCTTACTGCTGATGCTAGACTGTTATGTAATTTATGCGTCAGGAGTGTGG
ATTCCAGATTTGTATTCGATAGACCACTGCCTGTGTCTCGTCTTGATCTCTAATTGGAAGCAAGACCCA
GATACCAACAACGATATGGCCGGAGACCATATGGTGTGGTCTCCTTATTGCTGGTTATGATGATATG
GGCCCTCACATTTTCAAACCTGTCCATCTGCTAACTATTTTGACTGCAGAGCCATGTCCATTGGAGCCC
GTTCCCAATCAGCTCGTACTTACTTGGAGAGACATATGCTGAATTTATGGAGTGAATTTAAATGAACT
AGTTAAACATGGTCTGCGTGCCTTAAGAGAGACGCTTCTGCAGAACAGGACCTGACTACAAAGAATGTT
TCCATTGGAATTGTTGGTAAAGACTTGGAGTTTACAATCTATGATGATGATGATGTGTCTCCATTCTGG
AAGTCTTGAAGAAAGACCACAGAGAAAGGCACAGCCTGCTCAACCTGCTGATGAACCTGCAGAAAAGGC
TGATGAACCAATGGAACAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203260 protein sequence
 Red=Cloning site Green=Tags(s)

MFRNQYDNDVTWSPQGRHQIEYAMEAVKQGSATVVLLKSKTHAVLVALKRAQSELAHQKILHVDNHI
 GISIAGLTADARLLCNFMRQECLEDSRFVFDRLPVSRLVSLIGSKTQIPTQRYGRRPYGVGLLIAGYDDM
 GPHIFQTCPSANYFDCRAMSIGARSQSARTYLERHMSEFMECNLNELVKHGLRALRETLPAEQDLTTKNV
 SIGIVGKDLFTIYDDDDVSPFLEGLEERPQRKAQPAQPADEPAEKADEPMEH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6417_h10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_002786

ORF Size: 789 bp

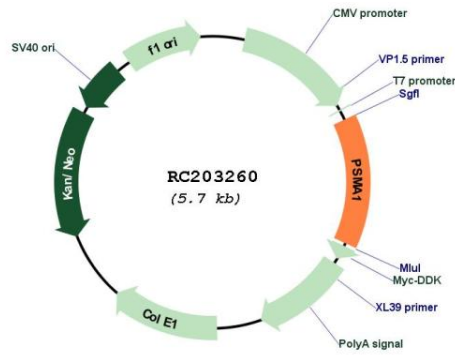
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

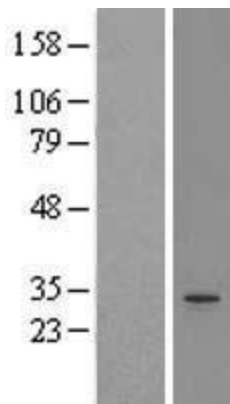
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<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:	NM_002786.4
RefSeq Size:	1281 bp
RefSeq ORF:	792 bp
Locus ID:	5682
UniProt ID:	P25786
Cytogenetics:	11p15.2
Domains:	proteasome
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Proteasome
MW:	29.6 kDa
Gene Summary:	<p>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. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Jan 2009]</p>

Product images:



Circular map for RC203260



Western blot validation of overexpression lysate (Cat# [LY419114]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203260 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).