

Product datasheet for RC205917

PSMA3 (NM_002788) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMA3 (NM_002788) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PSMA3
Synonyms:	HC8; PSC3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205917 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCTCAATCGGCACTGGGTATGACCTGTCAGCCTCTACATTCTCCTGACGGAAGAGTTTTTCAAG
TTGAATATGCTATGAAGGCTGTGAAAAATAGTAGTACAGCTATTGGAATCAGATGCAAAGATGGTGTGT
CTTTGGGGTAGAAAAATTAGTCCTTTCTAACTTTATGAAGAAGGTTCCAACAAAAGACTTTTTAATGTT
GATCGGCATGTTGAATGGCAGTAGCAGTTTGTGGCAGATGCTCGTTCTTTAGCGGACATGGCAAGAG
AAGAAGCTTCCAACCTCAGATCTAACTTTGGCTACAACATCCACTAAAACATCTGCAGACAGAGTGGC
CATGTATGTGCATGCATATACACTCTACAGTGCTGTAGACCTTTTGGCTGCAGTTTCATGTTAGGGTCT
TACAGTGTGAATGACGGTGCGCAACTCTACATGATTGACCCATCAGGTGTTTCATACGGTTATTGGGGCT
GTGCCATCGGCAAAGCCAGACAAGCTGCAAAGACGGAAATAGAGAAGCTTCAGATGAAAGAAATGACCTG
CCGTGATATCGTTAAAGAAGTTGCAAAAATAATTTACATAGTACATGACGAAGTTAAGGATAAAGCTTTT
GAACTAGAAGTCAAGTGGGTTGGTGAATTAATAATGGAAGACATGAAATGTTCCAAAAGATATAAGAG
AAGAAGCAGAGAAATATGCTAAGGAATCTCTGAAGGAAGAAGATGAATCAGATGATGATAATATG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC205917 protein sequence
Red=Cloning site Green=Tags(s)

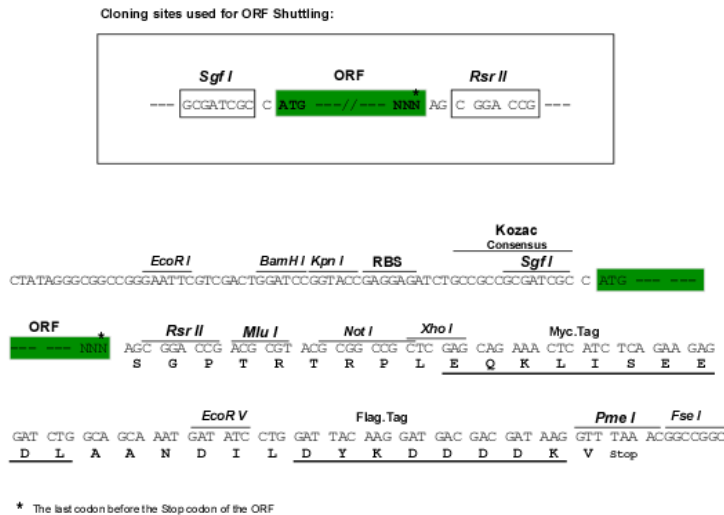
MSSIGTGYDLSASTFSPDGRVVFQVEYAMKAVENTSSTAIGIRCKDGVVFGVEKLVLSKLYEEGSNKRLFNV
 DRHVGMVAVGLLADARSLADMAREEASNFRSNFGYNIPLKHLADRVAMYVHAYTLYS AVRPFGC SFMLGS
 YSVNDGAQLYMIDPSGVS YGYWGCAIGKARQA AKTEIEKLQMKEMTCRDI VKEVAKIIYIVHDEVKDKAF
 ELELSWVGELTNGRHEIVPKDIREEA EKYAKESLKEEDESDDDNM

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6615_b11.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_002788

ORF Size: 765 bp

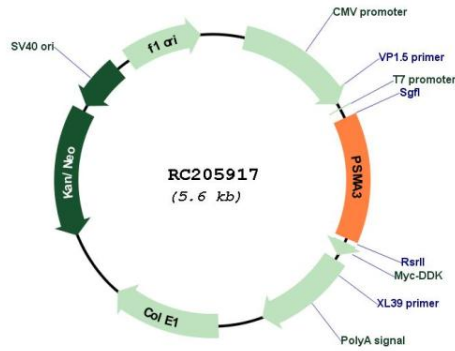
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially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

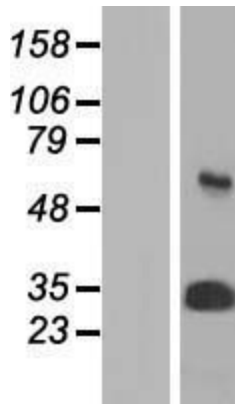
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_002788.4
RefSeq Size:	1014 bp
RefSeq ORF:	768 bp
Locus ID:	5684
UniProt ID:	P25788
Cytogenetics:	14q23.1
Domains:	proteasome
Protein Families:	Druggable Genome, Protease, Stem cell - Pluripotency
Protein Pathways:	Proteasome
MW:	28.5 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. Two alternative transcripts encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]</p>

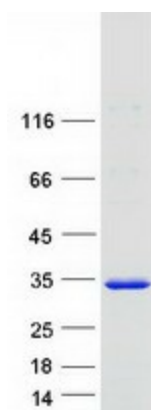
Product images:



Circular map for RC205917



Western blot validation of overexpression lysate (Cat# [LY419116]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205917 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PSMA3 protein (Cat# [TP305917]). The protein was produced from HEK293T cells transfected with PSMA3 cDNA clone (Cat# RC205917) using MegaTran 2.0 (Cat# [TT210002]).