

Product datasheet for SC306348

PSMA1 (NM_148976) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMA1 (NM_148976) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSMA1
Synonyms:	HC2; HEL-S-275; NU; PROS30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC306348 representing NM_148976. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCAGCTCAGCAAGGTGAAGTTTCGAAATCAGTATGACAATGATGTCAGTGTGGAGCCCCAGGGC
AGGATTCATCAAATTGAATATGCAATGGAAGCTGTTAAACAAGGTTACGCCACAGTTGGTCTGAAATCA
AAAACATGCAGTTTTGGTTGCATTGAAAAGGGCGCAATCAGAGCTTGCAGCTCATCAGAAAAAATT
CTCCATGTTGACAACCATATTGGTATCTCAATTGCGGGGCTTACTGCTGATGCTAGACTGTTATGTAAT
TTTATGCGTCAGGAGTGTGGATTCCAGATTTGTATTCGATAGACCACTGCCTGTCTCGTCTTGTA
TCTCTAATTGGAAGCAAGACCCAGATACCAACACAACGATATGGCCGGAGACCATATGGTGTGGTCTC
CTATTGCTGTTATGATGATATGGGCCCTCACATTTTCAAACCTGTCCATCTGCTAACTATTTTGAC
TGCAGAGCCATGTCCATTGGAGCCCGTTCCAATCAGCTCGTACTTACTTGGAGAGACATATGTCTGAA
TTTATGGAGTGAATTTAAATGAACTAGTTAAACATGGTCTGCGTGCCTTAAGAGAGACGCTTCTGCA
GAACAGGACCTGACTACAAAGAAATGTTCCATTGGAATTGTTGGTAAAGACTTGGAGTTTACAATCTAT
GATGATGATGATGTCTCCATTCTGGAAGGCTTGAAGAAAGACCACAGAGAAAGGCACAGCCTGCT
CAACCTGCTGATGAACCTGCAGAAAAGGCTGATGAACCAATGGAACATTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites:	Sgfl-MluI
Plasmid Map:	<input type="checkbox"/>
ACCN:	NM_148976
Insert Size:	810 bp



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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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_148976.2
RefSeq Size:	1498 bp
RefSeq ORF:	810 bp
Locus ID:	5682
UniProt ID:	P25786
Cytogenetics:	11p15.2
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Proteasome
MW:	30.2 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> <p>Transcript Variant: This variant (1) encodes the longest isoform (1), also referred to as the long isoform.</p>