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Product datasheet for SC118410

PSMA2 (NM_002787) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMA2 (NM_002787) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSMA2
Synonyms:	HC3; MU; PMSA2; PSC2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118410 sequence for NM_002787 edited (data generated by NextGen Sequencing)

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ATGGCGGAGCGCGGGTACAGCTTTTCGCTGACTACATTCAGCCCGTCTGGTAAACTTGTC
CAGATTGAATATGCTTTGGCTGCTGTAGCTGGAGGAGCCCCGTCCGTGGGAATTAAAGCT
GCAAATGGTGTGGTATTAGCAACTGAGAAAAAACAGAAATCCATTCTGTATGATGAGCGA
AGTGTACACAAAGTAGAACCAATTACCAAGCATATAGGTTTGGTGTACAGTGGCATGGGC
CCCGATTACAGAGTGCTTGTGCACAGAGCTCGAAAACTAGCTCAACAATACTATCTTGTG
TACCAAGAACCCATTCCTACAGCTCAGCTGGTACAGAGAGTAGCTTCTGTGATGCAAGAA
TATACTCAGTCAGGTGGTGTTCGTCCATTTGGAGTTTCTTTACTTATTTGTGGTTGGAAT
GAGGGACGACCATATTTATTTCAGTCAGATCCATCTGGAGCTTACTTTGCCTGGAAAGCT
ACAGCAATGGGAAAGAACTATGTGAATGGGAAGACTTTCCTTGAGAAAAGATATAATGAA
GATCTGGAACTTGAAGATGCCATTCATACAGCCATCTTAACCCTAAAGGAAAGCTTTGAA
GGGCAAATGACAGAGGATAACATAGAAGTTGGAATCTGCAATGAAGCTGGATTTAGGAGG
CTTACTCCAACTGAAGTTAAGGATTACTTGGCTGCCATAGCATAA

Clone variation with respect to NM_002787.4
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002787 unedited
CATTTTGTAATACGACTCACTATTAGGGCGGCCGCGAATTCGCACGAGCTTTGGCTCTTC
GGGTAAAGATGGCGGAGCGCGGGTACAGCTTTTCGCTGACTACATTCAGCCCGTCTGGTA
AACTTGTCCAGATTGAATATGCTTTGGCTGCTGTAGCTGGAGGAGCCCCGTCCGTGGGAA
TTAAAGCTGCAAATGGTGTGGTATTAGCAACTGAGAAAAAACAGAAATCCATTCTGTATG
ATGAGCGAAGTGTACACAAAGTAGAACCAATTACCAAGCATATAGGTTTGGTGTACAGTG
GCATGGGCCCCGATTACAGAGTGCTTGTGCACAGAGCTCGAAAACTAGCTCAACAATACT
ATCTTGTGTACCAAGAACCCATTCCTACAGCTCAGCTGGTACAGAGAGTAGCTTCTGTGA
TGCAAGAATATACTCAGTCAGGTGGTGTTCGTCCATTTGGAGTTTCTTTACTTATTTGTG
GTTGGAATGAGGGACGACCATATTTATTTCAGTCAGATCCATCTGGAGCTTACTTTGCCT
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ATAATGAAGATCTGGAACTTGAAGATGCCATTCATACAGCCATCTTAACCCTAAAGGAAA
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TTANGANGCTTACTCCAACTGAAANTAAGGATTACTTGGCTGCCATAGCATAACAATGAA
GTGACTGNAAAATCCAGAAATTCAGATAATCTATCTACTNTAACATNGTTAAAGTATNGT
TTTGTTTTGCAGACTTTTTGCATACTTTATTCTACATGGNTTAAATCGACTGTTNTTAAA
TGACACTATNAATCCCTATAACTGTTAACCACCTTCAGCCTTTAGAGTGCTAAAATTTAA
CAGTATTCCTGCTTTNTC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002787 unedited
ATTAGCATTTTATTTGAAGCACTTATGCCTCATCCTTGATTTAAAAAGTCTAACAAAATC
TAAGAACCCGGGTTCCTTTAAACATGTTTACCTACTTGTGGAGACACCAACAGGAACCAG
CAAACCATTGTTTATTTATTTACATAATGTATCTCCCATGGAGACCTATTTGGCTTACCA
CTCTTCATAGGCCTAGTACAATCTCATAGAGCACCCTAGGATTTCACTGATCAATACCTA
ATGGCACCTAAAAGTACCTATGCTTCTTTTCTTGTTCCATGAATCCGTGAAAGTCTGCAG
ATCCTCCCAGCTCTAGAAGCAGTCATGTTTTTTACCAAAATCAGCATTTTGCTTTATGGA
AACACAGGCAACATCTGATAGCGAAGAGGGCATTAAGATTTGACTTAACCAAAATTGCCT
GACAACGAAAAAGTCATTTCATCATTCTGCTTGGCAATGTACTCTTCAGAAATCAACTGT
GATAAAAAGCAGGAAATAACTGTTAAAATTTTAGCAACTCCTAAAAGGCTGGAAGGTGGG
TTTAACAGTTTATTANGATTTATAAGTGTCATTTTAAAAACAGTCGATTTAAACCATGTT
AGAATAAGTATGCAAAAAGTCTGCAAAACANAACATACTTTAAACATGTTTAAGTAGATA
GATTATCTGAAACTCCTGATTTTTCAGTCACCTCACTGCTATGCTATGGCAGCCAAGTAC
ATCCTCACCTCCAGTTGGGATCAGTCCCCCTAATCCCACCTCNTTTGATAATCCCAACCC
CTATGCTATCCTCTCGCTATTGCCCTTCAAAGCTCTCTTTTAGGCTAACAAGGCCGTTTG
AATTGCATCTTCAATTCCCAATCTCCATTCTTCTTTCTAACCGCAGCGCTCTCATTCCAT
ATACCTTCCCATGGTGCAATTTTCAGCCAACAACCCCACATGTTCTCCTTGAAAAATTGC
GCCCCCTCTCCACCACAATATTCACAACCTCAATGATATAC

Restriction Sites: NotI-NotI

ACCN: NM_002787

Insert Size: 1610 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_002787.3, NP_002778.1
RefSeq Size:	1477 bp
RefSeq ORF:	705 bp
Locus ID:	5683
UniProt ID:	P25787
Cytogenetics:	7p14.1
Domains:	proteasome
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Proteasome
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. [provided by RefSeq, Jul 2008]