

## Product datasheet for **SC118412**

### PSMA4 (NM\_002789) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PSMA4 (NM_002789) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSMA4
Synonyms:	HC9; HsT17706; PSC9
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118412 sequence for NM_002789 edited (data generated by NextGen Sequencing)

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ATGTCTCGAAGATATGACTCCAGGACCACTATATTTTCTCCAGAAGGTCGCTTATACCAA  
GTTGAATATGCCATGGAAGCTATTGGACATGCAGGCACCTGTTTGGGAATTTAGCAAAT  
GATGGTGTGGCTTGCAGCAGAGAGACGCAACATCCACAAGCTTCTTGATGAAGTCTTT  
TTTTCTGAAAAATTTATAAACTCAATGAGGACATGGCTTGCAGTGTGGCAGGCATAACT  
TCTGATGCTAATGTTCTGACTAATGAACTAAGGCTCATTGCTCAAAGGTATTTATTACAG  
TATCAGGAGCCAATACCTTGTGAGCAGTTGTTACAGCGCTGTGTGATATCAAACAAGCT  
TATACACAATTTGGAGGAAAACGTCCTTTGGTGTTCATTGCTGTACATTGGCTGGGAT  
AAGCACTATGGCTTTCAGCTCTATCAGAGTGACCCTAGTGAAAATTACGGGGGATGGAAG  
GCCACATGCATTGAAAATAATAGCGCTGCAGCTGTGTCAATGTTGAAACAAGACTATAAA  
GAAGGAGAAAATGACCTTGAAGTCAGCACTTGCTTTAGCTATCAAAGTACTAAATAAGACC  
ATGGATGTTAGTAACTCTCTGCTGAAAAAGTGAAAATTGCAACACTAACAAGAGAGAAT  
GGAAAGACAGTAATCAGAGTTCTCAAACAAAAGAAAGTGAGCAGTTGATCAAAAAACAC  
GAGGAAGAAGAAGCCAAAGCTGAGCGTGAGAAGAAAGAAAAGAACAGAAAAGAAAAGGAT  
AAATAG
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Clone variation with respect to NM\_002789.4  
720 t=>c



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_002789 unedited            NGTCGGAATTTGTATACGACTCCTATAGGCGGCCGCGAATCGGCACGAGGGTGAGCGGT            GGTGGTTTATTCTTCCGCGGAGTTAAGGGCTCCGTGGACATCTCAGGTCTTCAGGGTCTT            CCATCTGGAACATATAAAGTTCAGAAAACATGTCTCGAAGATATGACTCCAGGACCACT            ATATTTTCTCCAGAAGGTCGCTTATACCAAGTTGAATATGCCATGGAAGCTATTGGACAT            GCAGGCACCTGTTGGGAATTTAGCAAATGATGGTGTGTTTCTGCTGCAGCAGAGAGACGC            AACATCCACAAGCTTCTTGATGAAGTCTTTTTTCTGAAAAAATTTATAAACTCAATGAG            GACATGGCTTGCAGTGTGGCAGGCATAACTTCTGATGCTAATGTTCTGACTAATGAACTA            AGGCTCATTGCTCAAAGGTATTTATTACAGTATCAGGAGCCAATACCTTGTGAGCAGTTG            GTTACAGCGCTGTGTGATATCAAACAAGCTTATACACAATTTGGAGGAAAAACGTCCCTTT            GGTGTTTCATTGCTGTACATTGGCTGGGATAAGCACTATGGCTTTCAGCTCTATCAGAGT            GACCCTAGTGGAAATTACGGNGGATGGAAGGCCACATGCATTGGAATAATAGCGCTGCA            GCTGTGCAATGTTGAAACAAGACTATAAAGAAGGAGAAATGGACCTTGAGTCAGCACTT            GCTTTAGCTATCANAGTACTAAAATAAGACCATGGGATGNNTAGTANACTCTCTGCTNGAN            AAGTGGAAATTGCAACACTAACCAGAGAGAATGGANNAGACAGTAATCAGAGTTCTCAAC            ANAAAGAGGGGGAGCAGTTGATCAAAAACACGAGGAAGAAGCCAAGCTGAGCGTGAGA            AGAAGAA</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_002789 unedited            TGGACCGCGCCCGCAATCTACTGTCGAGTTTTTTTTTTTTTTTTTATCCTTCATTCTCC            ATTTTCCAAATTTTATCCAAAAAGGGGATGTGTGTGGCAAAATTAACACGTCCATGAA            GGGTAACCATCATCGTTACAATAAAGTATTCAATTGGACAGAAAATGACAAGGACCCAATT            CAGTATGTACTGCCTATTTTCCACTGCACCAGTTAAAAAAGTAAAGCCTTCCTAGTG            TGGAAGAGTCGGACTGCTTTTACTACTGAAATGGTGCCCAATGATCAATAAAATTTCTG            ATTCTATTTATCCTTTTATTTCTGTTATTTTTCTTTCTTCTCACCTCCACCTAAGGCTA            CTTATTCCTTGCCTTTTTGAACAACCTCGCTCCACTTCCTTTTTGTCTGAGAACTCTGAT            CACTGTTTTTACATTCTCTTCTGTTGCCGTTCCCATTTCCCACTTTCTAATATGACATT            TTACTAACTCTTATCGTCCCAATCCCCACTCCGATTCCTCATTATCAATCGTTCTTTTT            CACGTCATACTCTCCTTTATTTTATTTTCTGTTTATAATCGACCACTCTCCTTTTCTTT            TATCTCTCAATGCTCCCGATCACTCCATCTAATCTCCCTCCTCCTTCTTCCCTCTTCT            TTTCCCCCCCCCCCCCTCTCGTTTTTTTTCACTTCCAATTTCTTAATTTAATATCT            AGGTACCTTTACCCTTCCATCCTTATAAACTCCCCCTCAATTCCTCTTTGTTGTTCT            CTCCCCTCTCACACCTTTTCTCCCTCTCCGTCGCTCCCTCTACCCCTCCTCGTTC            TCCCCCCCCCCCCCCCCCCCCCCCCCTCCCCACCTCCCGTCTCTCCCTTT            TCCTCTCTAT</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002789
<b>Insert Size:</b>	1140 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_002789.3</a> , <a href="#">NP_002780.1</a>
<b>RefSeq Size:</b>	1189 bp
<b>RefSeq ORF:</b>	786 bp
<b>Locus ID:</b>	5685
<b>UniProt ID:</b>	<a href="#">P25789</a>
<b>Cytogenetics:</b>	15q25.1
<b>Domains:</b>	proteasome
<b>Protein Families:</b>	Druggable Genome, Protease
<b>Protein Pathways:</b>	Proteasome
<b>Gene Summary:</b>	This gene encodes a core alpha subunit of the 20S proteasome, which is a highly ordered ring-shaped structure composed of four rings of 28 non-identical subunits. Proteasomes cleave peptides in an ATP- and ubiquitin-dependent manner. [provided by RefSeq, Aug 2016]