

## Product datasheet for **SC125657**

### PSMA8 (NM\_001025097) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PSMA8 (NM_001025097) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSMA8
Synonyms:	PSMA7L
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_001025097 edited  
 AGCGGGCTTTCGGGCGGTAGCACGCTGTGTTGGCGGCGGCTCCCCGCTTGCCTCAGCTGC  
 AGCAGCGGGAAGCTCGGTGGCAAGCCCTTGTAGTCCTGTGCGATGGCGTCTCGATATGAC  
 AGGGCGATCACTGTCTTCTCCCCAGACGGACACCTTTTCAAGTTGAATATGCCAAGGAA  
 GCGGTGAAGAAAGGATCCACCGCGGTGGAATTCGAGGACTTACTGCTGATGCTAGAGTA  
 GTAATAAACAGAGCCCGTGTGGAGTGCCAGAGCCATAAGCTTACGTTGAGGACCCAGTC  
 ACTGTAGAATACATAACTCGCTTATAGCAACTTAAAGCAGAAATATACCCAAAGCAAT  
 GGACGAAGACCTTTTGGTATTTCTGCCTTAATTGTAGGTTTTGATGATGATGGTATCTCA  
 AGATTGTATCAGACAGATCCTTCTGGTACTTATCATGCTTGAAGGCAAAATGCAATAGGC  
 CGAAGTGCTAAAAGTTCGAGAATTTCTAGAAAAGAATTACACAGAAGATGCCATAGCA  
 AGTGACAGTGAAGCTATCAAGTTAGCAATAAAGCTTTGCTAGAAGTTGCCAGTCTGGT  
 GGAAGAAACATTGAACTTGCTATAATAAGAAGAAATCAACCTTTGAAGATGTTTAGTGCA  
 AAAGAAGTTGAATTATATGTAAGTAAATAGAAAAGGAAAAGGAAGAAGCAGAGAAGAAA  
 AAATCAAAGAAATCTGTCTAATTTCTTAGGATGACCACTGGGAGGCTTAAATGTTTTGTTT  
 TATTGTACTGCCTGAGGTTGTTTGTGAAATTTTAGAGGAAAACAGTTATTTTGCAGCAT  
 TACATGCAGTACTTGTGTGATGTTTTGAGAATGCCAGATCTGTGGCTGTCTTCATTCTAT  
 TACATAGTCAAACATAGGTTTATGTGAAGATTTTCTTTGAAAGGGGATTTTCAGTAATTGT  
 TGAGAGCAGTCATAATCCACATAAGCCTGAGACTCTATAATTTGTCCAGTGTCTTACTT  
 ACCTTCATATATGCAAATATAATTTTAAAAATTTTAAATTAATAAATAAATAAATTTG  
 GTGATGTTTGAATATTGACTGTCAGTTAAGGACATAGCTATTCCAAATAAACTAAATATA  
 ATATTGAGCTGCATTTCTCAAAGATGACAAAAGCATCCTTATACTGATGAGTTCCTAAA  
 ATTTTGTGAGGCTTCTTCAATTTTACAATATTTTGTATTTTATTTTACCTTTTTCAT  
 TTTACAATTTTGTATTTTATTTTACCTTTTTCATTTTACAAGTTGCAATATATTGT  
 TTCGTTTATGGAACAAATATAGGCTGAATTCAAACATGCAATTAAGCATGGGAAGAGCT  
 TCTAAGGGCATCTTAACAGGATGCTACATGAAAATAAGGAAAGAAATTAATACATATCAC  
 TTTTAGTTAGATTTTTATTTTATCTCAAGTATGTCCAGTGTGTTGCGTTTGTACATAT  
 TCCATGAAATATCTGAGTGTGATTTTTATGATTGGTATTATGGAAGGCTTATTGGGGGAA  
 CAAGAAAATATAAAAGTGATCTCTGCCACGGAAAGGATTTAATCCAAATGGTCCACA  
 AGAGGAATGTGCTAATTCCTACAGTGAGTTTATTTTTGAAAATAAAAGCTAGTAAAT  
 ATTCAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_001025097 unedited  
 NGGGGGTCAGATTTTGTATACGACTCATATAGGCGGCCGCATAAATTCGTATAGCATACA  
 TTATACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGCGAGCGGGCTT  
 TCGGGCGGTAGCACGCTGTGTTGGCGGCGGCTCCCCGCTTGCCTCAGCTGCAGCAGCGGG  
 AAGCTCGGTGGCAAGCCCTTGTAGTCTGTGCGATGGCGTCTCGATATGACAGGGCGATC  
 ACTGTCTTCTCCCAGACGGACACCTTTTCAAGTTGAATATGCCAAGGAAGCGGTGAAG  
 AAAGGATCCACCGCGGTGGAATTCGAGGACTTACTGCTGATGCTAGAGTAGTAATAAAC  
 AGAGCCCGTGTGGAGTGCCAGAGCCATAAGCTTACGTTGAGGACCCAGTCACTGTAGAA  
 TACATAACTCGCTTATAGCAACTTTAAAGCAGAAATATACCCAAAGCAATGGACGAAGA  
 CCTTTTGGTATTTCTGCCTTAATTGTAGGTTTTGATGATGATGGTATCTCAAGATTGTAT  
 CAGACAGATCCTTCTGGTACTTATCATGCTTGAAGGCAATGCAATAGGCCGAAGTGTCT  
 AAAACTGTTTCGAGAATTTCTAGAAAAGAATTACACAGAAGATGCCATAGCAAGTGACAGT  
 GAAGCTATCAAGTTAGCAATAAAGCTTTGCTAGAAGTTGTCCAGTCTGGTGAAGAAAC  
 ATTGAACTTGCTATAATAAGAAGAAATCAACCTTTGAAGATGTTTGTGCAAAAGAGTT  
 GAATTATATGTAAGTGANATAGAAAAGGAAAAGGAAGAAGCAGAGAAGAANAATCAAAA  
 AAATCTGTCTAATTTCTAGGATGACCACTGNGAGGCTTAAATGGGTTTGTATTGTACT

**Restriction Sites:** NotI-NotI  
**ACCN:** NM\_001025097

<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_001025097.1</a> , <a href="#">NP_001020268.1</a>
<b>RefSeq Size:</b>	1713 bp
<b>RefSeq ORF:</b>	639 bp
<b>Locus ID:</b>	143471
<b>UniProt ID:</b>	<a href="#">Q8TAA3</a>
<b>Cytogenetics:</b>	18q11.2
<b>Protein Families:</b>	Druggable Genome, Protease
<b>Protein Pathways:</b>	Proteasome
<b>Gene Summary:</b>	<p>Component of the spermatoproteasome, a form of the proteasome specifically found in testis that promotes degradation of histones, thereby participating actively to the exchange of histones during spermatogenesis. The proteasome is a multicatalytic proteinase complex which is characterized by its ability to cleave peptides with Arg, Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral or slightly basic pH (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) uses two different alternate in-frame splice sites in the coding region, compared to variant 1, resulting in a shorter isoform (3).</p>