

## Product datasheet for **SC320835**

### PSMA3 (NM\_152132) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PSMA3 (NM\_152132) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** PSMA3  
**Synonyms:** HC8; PSC3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC (PS100020)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_152132.1  
GCTCCGGGCTGGAATCCCTACGCGTCCCTTTGGGTTTAGCACGATGAGCTCAATCGGCA  
CTGGGTATGACCTGTGAGCCTCTACATTCTCCTGACGGAAGAGTTTTCAAGTTGAAT  
ATGCTATGAAGGCTGTGAAAAATAGTAGTACAGCTATTGGAATCAGATGCAAAGATGGTG  
TTGCTTTTGGGGTAGAAAAATTAGTCCTTTCTAACTTTATGAAGAAGGTTCCAACAAAA  
GACTTTTTAATGTTGATCGGCATGTTGGAATGGCAGTAGCAGTTTGTGGCAGATGCTC  
GTTCTTTAGCAGACATAGCAAGAGAAGAAGCTTCCAACCTCAGATCTAACTTTGGCTACA  
ACATCCACTAAAACATCTTGCAGACAGAGTGGCCATGTATGTGCATGCATATACTCT  
ACAGTGTGTTAGACCTTTTGGCTGCAGTGTGAATGACGGTGCGCAACTCTACATGATTG  
ACCCATCAGGTGTTTCATACGGTATTGGGGCTGTGCCATCGGCAAAGCCAGGCAAGCTG  
CAAAGACGAAAAATAGAGAAGCTTCAGATGAAAGAAATGACCTGCCGTGATATCGTTAAAG  
AAGTTGCAAAAATAATTTACATAGTACATGACGAAGTTAAGGATAAAGCTTTTGAAGTAG  
AACTCAGCTGGGTTGGTGAATTAACATAATGGAAGACATGAAATTGTTCCAAAAGATATAA  
GAGAAGAAGCAGAGAAATATGCTAAGGAATCTCTGAAGGAAGAAGATGAATCAGATGATG  
ATAATATGTAACATTTACTCCAGCATCTATTGTATTTAAATTTCTACTCCAGTCCAATG  
TAACTATTTAGCCCTGGATTATACATACTGTCCAATTTTCATTAATTTTGTCTTATAA  
CTATTA

**Restriction Sites:** Please inquire

**ACCN:** NM\_152132

**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).



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<b>OTI Annotation:</b>	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.
<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_152132.1</a> , <a href="#">NP_687033.1</a>
<b>RefSeq Size:</b>	938 bp
<b>RefSeq ORF:</b>	747 bp
<b>Locus ID:</b>	5684
<b>UniProt ID:</b>	<a href="#">P25788</a>
<b>Cytogenetics:</b>	14q23.1
<b>Domains:</b>	proteasome
<b>Protein Families:</b>	Druggable Genome, Protease, Stem cell - Pluripotency
<b>Protein Pathways:</b>	Proteasome
<b>Gene Summary:</b>	<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> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the coding region, compared to variant 1, resulting in a shorter protein (isoform 2).</p>