

Product datasheet for **SC324434**

PSMB3 (NM_002795) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: PSMB3 (NM_002795) Human Untagged Clone
Tag: Tag Free
Symbol: PSMB3
Synonyms: HC10-II
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC (PS100020)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_002795.2
AGCGGTTGCGCAGTGAAGGCTAGACCCGGTTTACTGGAATTGCTCTGGCGATCGAGGGGT
CCTAGTACACCGCAATCATGTCTATTATGCTCTATAACGGAGGGGCCGTCATGGCCATGA
AGGGGAAGAACTGTGTGCCATCGCTGCAGACAGGCGCTTCGGGATCCAGGCCAGATGG
TGACCACGGACTTCCAGAAGATCTTCCCATGGGTGACCGGCTGTACATCGGTCTGGCCG
GGCTCGCCACTGACGTCCAGACAGTTGCCAGCGCCTCAAGTTCCGGCTGAACCTGTATG
AGTTGAAGGAAGGTGCGCAGATCAAACCTTATACCCTCATGAGCATGGTGGCCAACCTCT
TGTATGAGAAACGGTTTGGCCCTTACTACACTGAGCCAGTCATTGCCGGTTGGACCCGA
AGACCTTTAAGCCCTTCATTTGCTCTTAGACCTCATCGGCTGCCCCATGGTACTGATG
ACTTTGTGGTCAGTGGCACCTGCGCCGAACAAATGTACGGAATGTGTGAGTCCCTCTGGG
AGCCCAACATGGATCCGGATCACCTGTTTGAACCATCTCCCAAGCCATGCTGAATGCTG
TGGACCGGATGTCAGTGTGAGGATGGGAGTCATTGTCCACATCATCGAGAAGGACAAAA
TCACCACCAGGACTGAAGGCCGAATGGACTAACCTGTTCCAGAGCCCACTTTTTT
TTCTTTTTTTGAAATAAAATAGCCTGTCTTTCAAAAAACAAAAAAAAAAAAAAAAAAAA
AAA

Restriction Sites: Please inquire

ACCN: NM_002795

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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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_002795.2 , NP_002786.2
RefSeq Size:	784 bp
RefSeq ORF:	618 bp
Locus ID:	5691
UniProt ID:	P49720
Cytogenetics:	17q12
Domains:	proteasome
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Proteasome
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 proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. The 26 S proteasome may be involved in trinucleotide repeat expansion, a phenomenon which is associated with many hereditary neurological diseases. Pseudogenes have been identified on chromosomes 2 and 12. Alternative splicing results in multiple transcript variants [provided by RefSeq, Sep 2013]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the functional protein.</p>