

Product datasheet for **SC215018**

Proteasome Activator Subunit 4 (PSME4) (NM_014614) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	Proteasome Activator Subunit 4 (PSME4) (NM_014614) Human 3' UTR Clone
Symbol:	Proteasome Activator Subunit 4
Synonyms:	PA200
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_014614
Insert Size:	1539 bp



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Insert Sequence: >SC215018 3'UTR clone of NM_014614
The sequence shown below is from the reference sequence of NM_014614. The complete sequence of this clone may contain minor differences, such as SNPs.
Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CTTCTTGTCACCATGCTATTATGCATAGAAAGATGACTAGTCCTCACTTCAGGCTCTTTTCATCAAA
AATCCACACCCTCAGGTACCATCTGTGGTGGCTCTCTGCAAGTTTTAAACTGCCTCTGCTGAGCTCT
CATCATTTTGGTGGTTTCTGTGTAGATCTCGTTAGTCTGCATTCCACAGCTTCTCAGTTGCCATTTGA
TTTCCCAACTTGTCCGGAAGTGTTCAGAACTACTGATCACTTTTTTTTTTTGAGGCATCTGACAAAGT
CACAAAGTCTCAGACTAGAAATAATTACCCAGTATGATCATGGCATCCAAGACCAGAGTCTCAGAACTC
ATTAAGAAACAGTTTACTTGGAAATGGAGAATACCCATCTGTAATACAGGTCTGTCACTTTCATTCATCT
CAAATTATTTGAATTCTCCCAAATGGCTGCTGGATTTAGTGGTAATAGGGGCTGTGGCCATAAAT
CTGAAGCCTTGAGAACCTTGGGCTGGAGAGCCATGAAGAGGGAAGGAAAAGAGGGCAAGTCTGAACC
TAACCAATGACCTGATGGATTGCTCGACCAAGACACAGAAGTGAAGTCTGTGTCTGTGCACTTCCACA
GACTGGAGTTTTTGGTGTGAATAGAGCCAGTTGCTAAAAAATTGGGGTTTTGGTGAAGAAATCTGATT
GTTGTGTGATTCAATGTGTGATTTAAAAATAAACAGCAACAATAAAAACCTGACTGGCTGTTTT
TTTCCCTGATTTTACAACATTTTTTACCCTCTGAAAATTATTACTTACCTAAATGGAAGAC
TGCTGTGTTTTGTGAAATTTTGAATTTTTAATTTATTTTATTTCTCTCCCTTTTTATTTTGCCTGC
AGAATCGTTGAGAGACTAATAAGGCTTAATATTTAATTGATTTGTTAATATGTTATATAAATGAAAA
GAGTGTATAAACTGTAGAGATAGCATTGGCAAGACATTGTACAGATGCAACCTTTTACACAACATCATT
GTGTAATTTGTAAGATTACGTGTAGTTCTTTATTATAGTGATTTTGGGCTTTGTACCCACTGAATGC
CATTTTTTGTGTTTTAAATTATTTTCTTATCTTGTACAAAACTGAGATGTGGGTTTTTTTTTTTT
TCAGTTCATTATCATTAGAATGTCTGAACTTTTATGTAACATTTTTGTGTGCATCTCTCAATGCTAAC
ACCACATGTTTGCTATGACAAGTTTATAGAGTGAAAGGTATCTTCTGGGTTGAAATAATTCACAAATT
GGTGAATGTCATCTTGAACACACCCTGTACAGTCTTCTTAAAGGAACACTACAGTATATTTTAGTA
TCTACATGCTGAATGACTGAATACAGACCTAAGCACAGCAGTGGTCTGGTACAGTATTTAAGTGTCCG
CATAACAGGCGTAATCCCTGTATAAAGTAGTGCCAAACTGATTCAGTTGTGTAAGTATTTAAAC
CAATAAATGGATTCTTTTTAA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTTCGATTCCACCGCCGCTTCTATGAAAGG
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Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_014614.3](#)

Summary:

Associated component of the proteasome that specifically recognizes acetylated histones and promotes ATP- and ubiquitin-independent degradation of core histones during spermatogenesis and DNA damage response. Recognizes and binds acetylated histones via its bromodomain-like (BRDL) region and activates the proteasome by opening the gated channel for substrate entry. Binds to the core proteasome via its C-terminus, which occupies the same binding sites as the proteasomal ATPases, opening the closed structure of the proteasome via an active gating mechanism. Component of the spermatoproteasome, a form of the proteasome specifically found in testis: binds to acetylated histones and promotes degradation of histones, thereby participating actively to the exchange of histones during spermatogenesis. Also involved in DNA damage response in somatic cells, by promoting degradation of histones following DNA double-strand breaks.[UniProtKB/Swiss-Prot Function]

Locus ID:

23198

MW:

58.8