

Product datasheet for **SC201792**

PSMC2 (NM_002803) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	PSMC2 (NM_002803) Human 3' UTR Clone
Symbol:	PSMC2
Synonyms:	MSS1; Nbla10058; RPT1; S7
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_002803
Insert Size:	1371 bp



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Insert Sequence: >SC201792 3'UTR clone of NM_002803
The sequence shown below is from the reference sequence of NM_002803. The complete sequence of this clone may contain minor differences, such as SNPs.
Blue=Stop Codon **Red**=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GCTACTCCTCGTTACATGACATACAACGAACCCTGAAGGCTTTCAAGTGAAGCTTTAAATTGGAATC
CTAACCTTATATAGACTTGTTAATAACCAATTCATAAACAAATAAATGGCTTCAAAATTGTATGCTTTT
TTCCATATCTCTTCTTGAATATAATAAAAGGTGATTTCTAATGTTATTAGGCAGAAAAGCTTGTTAGA
ATATATTTTGACTATTTTTTTGACCCACACCCGTTTAAGGATTTACATCATACAAGCGCTTGCTTAG
ATGGCTTCTATCCTAGGCATATGCTGGCCGGTGCTCTACATATAAATTCTATTGTATCCTCCCATCT
GTCCACTGAGGAAGATTATCAAATGGATCTTCATCCAATGGATGCATAAACTTTCCTACTTACTTGTAG
TGGCAAAGCTGGCTTTCAAGTACAAGTTTGTGGCTCCATTACCTATGCTCTATTATCCGCTTCTGTC
CCGCAACAAAGTAGCTCACTTAGGCGTATGACCACATGCATTATGATAGTTTCCACCACCATATTGAA
TAATAAAAGCTTTGGCCAAAGCTTTTTTAAAGTAGGAGAAACATTGGATGTATATGTTTTGCATTGCCA
TTTGATTTCAAATTAATCAGGAAGAATTAGTGATTTTAATGAGCAGTAAAGTGGTGCAATAAAGCAGAA
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ATTTAGAAAGTCCAGAATTGGCTTCATACAGAAAAGTGATTACTTTTCAAAATTACTTTAAAT
TTTGGTAAAGTTTCTGTTAGGCTTCTGGTCTACAGTGAGGTATTTTAAAAATAAAGGTTATATTAGAA
CCTCAACATCTCTTTAAATTACCTCCTGTGTAAACCACCACCAATCCTATCTTACCACAATTACCC
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TTGCAAAATAAGAGTTGGATATATTTTAAATTCACAATAGAAAAAGTTGACAACATAGAAATGCTGCT
TTGCACTGAAATACTTAAATATGAAAGTTTTCAAGTAAAGAAATTAAGCCTTTTATAAAATCCAAC
CAACATTCTTGATTTTTTCAATTTTATGAACTTGATCAGAAAAATTCATCTTTTTTAACCCCTGCCCTAAT
TTTTCTTGAGGAATTAATAGAGCAAACTATTTTCAAGTTATGCTTACAATAAAATATACTTAAGAAAA
TGACTGAAGATGTATGTTTTGAATGTTTGTATTAATAAATGTACACATTTAGAACACA
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTTGATTCCACCGCCGCTTCTATGAAAGG
    
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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_002803.4

Summary:

The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core 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. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase 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 one of the ATPase subunits, a member of the triple-A family of ATPases which have a chaperone-like activity. This subunit has been shown to interact with several of the basal transcription factors so, in addition to participation in proteasome functions, this subunit may participate in the regulation of transcription. This subunit may also compete with PSMC3 for binding to the HIV tat protein to regulate the interaction between the viral protein and the transcription complex. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Mar 2011]

Locus ID:

5701

MW:

53.7