

## Product datasheet for **TP301790M**

### PSMC3 (NM\_002804) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human proteasome (prosome, macropain) 26S subunit, ATPase, 3 (PSMC3), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC201790 representing NM_002804 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MNLLPNIESPVTRQEKMATVWDEAEQDGIGEEVLKLMSTEEIIQRTRLLDSEIKIMKSEVLRVTHELQAMK  
DKIKENSEKIKVNTLPYLVSNVIELLDVDPNDQEEDGANIDLDSQRKKGKCAVIKTSTRQTYFLPVIGLV  
DAEKLKPGDLVGVNKDSYLILETLPTDYDSRVKAMEVDERPTEQYSDIGGLDKQIQELVEAIVLPMNHKE  
KFENLGIQPPKGVLMYGPPTGKTLARACAAQTKATFLKLAGPQLVQMFIDGAKLVRDAFALAKEKAP  
SIIFIDELDAIGTKRFDSEKAGDREVQRTMLELLNQLDGFQPNQVVKVIAATNRVDILDPALLRSGRLDR  
KIEFMPNNEEARARIMQIHSRKMNVPDVNYEELARCTDDFNGAQCKAVCVEAGMIALRRGATELTHEDY  
MEGILEVQAKKANLQYYA

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	49 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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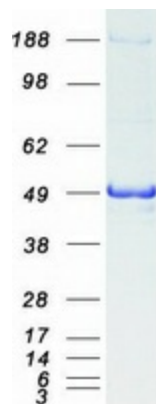
RefSeq:	<a href="#">NP_002795</a>
Locus ID:	5702
UniProt ID:	<a href="#">P17980</a> , <a href="#">A0A140VK42</a>
RefSeq Size:	1618
Cytogenetics:	11p11.2
RefSeq ORF:	1317
Synonyms:	DCIDP; RPT5; TBP1

**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 that have chaperone-like activity. This subunit may compete with PSMC2 for binding to the HIV tat protein to regulate the interaction between the viral protein and the transcription complex. A pseudogene has been identified on chromosome 9. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** Proteasome

### Product images:



Coomassie blue staining of purified PSMC3 protein (Cat# [TP301790]). The protein was produced from HEK293T cells transfected with PSMC3 cDNA clone (Cat# [RC201790]) using MegaTran 2.0 (Cat# [TT210002]).