

Product datasheet for **TP503487**

Psmb4 (NM_008945) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse proteasome (prosome, macropain) subunit, beta type 4 (Psmb4), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR203487 protein sequence Red =Cloning site Green =Tags(s)

MEAFWESRAGHWAGGPAPGQFYRIPSTPSGLMDPASAPCEGPITRTQNPMVTGTSVLGVKFDGGWVIAAD
MLGSYGSLARFRNISRIMRVNDSTMLGASGDYADFQYLKQVLGQMVIDEELLGDGHSYSPRAIHSWLTRA
MYSRRSKMNPLWNTMVIIGGYADGESFLGYVDMLGVAYEAPSLATGYGAYLAQPLLREVLEKQPVLSQTEA
RELVERCMRVLYYRDARSYNRFQIATVTEKGVEIEGPLSAQTNWDIAHMISGFE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	29.1 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
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 after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_032971</u>
Locus ID:	19172
UniProt ID:	<u>P99026</u>
RefSeq Size:	949



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Cytogenetics: 3 40.74 cM

RefSeq ORF: 795

Synonyms: Pros-27

Summary: Component of the 20S core proteasome complex involved in the proteolytic degradation of most intracellular proteins. This complex plays numerous essential roles within the cell by associating with different regulatory particles. Associated with two 19S regulatory particles, forms the 26S proteasome and thus participates in the ATP-dependent degradation of ubiquitinated proteins. The 26S proteasome plays a key role in the maintenance of protein homeostasis by removing misfolded or damaged proteins that could impair cellular functions, and by removing proteins whose functions are no longer required. Associated with the PA200 or PA28, the 20S proteasome mediates ubiquitin-independent protein degradation. This type of proteolysis is required in several pathways including spermatogenesis (20S-PA200 complex) or generation of a subset of MHC class I-presented antigenic peptides (20S-PA28 complex). SMAD1/OAZ1/PSMB4 complex mediates the degradation of the CREBBP/EP300 repressor SNIP1.[UniProtKB/Swiss-Prot Function]