

## Product datasheet for **TP518061**

### **Psme4 (NM\_134013) Mouse Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Mouse proteasome (prosome, macropain) activator subunit 4 (Psme4), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
<b>Species:</b>	Mouse
<b>Expression Host:</b>	HEK293T



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**Expression cDNA Clone** >MR218061 representing NM\_134013  
**or AA Sequence:** Red=Cloning site Green=Tags(s)

MEAPERAGGGPEPEPGGRPVLPRAFVPQKEIVYNKLLPYAERLDAESDLQLAQIKSNLGRAVQLQELWP  
 GGLFWTRKLSYIRLYGRKFSKEDHVLFIKLLYELVSIKLEISMMQGFARLLINLLKKKELLSRDDLEL  
 PWRPLYDLVERILYSKTEHLRLNSFPNSIENVLKTIVKSCRPFYFPADSTAEMLEEWRLMCPFDVTMQKA  
 ISYFEIFLPTSLPPELHHKGFKLWFDELIGLWWSVQNLQPWEGQLVNLFARLATDNIGYIDWDPYVPKIF  
 TRILRSLNLPVGSQVLVPRFLTNAVDIGHAVIWITAMMGGPSKLVQKHLAAGLNFNSITSFYHPSNNGRWL  
 NKLMKLLQRLPNSVRRRLHRERFKKPSWLTVPVESHKLTDDEDVDFVQCIIQPVLLAMFSKTGSLEAAQA  
 LQNLALMRPELVIPPVLERLYPALETLPHPQLTATLNCVIGVARSLVSGSKWFPPEGPTHMLPLLMRALP  
 GVDPNDFSKCMITFQFIGTFSTLVPLVDCSSVLQERNDLTEIEKELCSATAEFEDFVLQFMDRCFGLIES  
 STLEQTREETETEKMTHELSVELGLSSTFSTILTQCSKDIFMVALQKVFNFVSHIFETRVRAGRMVADM  
 CRAAVKCCPEESLKLFPVHCYGVITQLTMNDDVLNEEELDKELLWNLQLLSEITRVDGKLLLYREQLVK  
 ILQRTLHLTCKQGYTLSCNLLHLLRSTTLIYPTCYSPGGFNKPPSEYFPVKDWGKPGDLWNLGIQWH  
 VPSSEEVSAFYLLDSFLQPELIKQCCGDGELEMSRDDILQSLTIVHSLIGSGNLLPPLKGEAVTNLV  
 PSMVSLLEETKLYTGLEHDLRENYREVIASVIRKLLSHILDNSEDDTKSLFLIIKIGDLLHFQGSHE  
 FDSRWKSFNLVKKSMENRLHGKKQHIRALLIDRVMLQHELRTLTVEGCEYKQKIHQDMIRDLLRLSTSSYS  
 QVRNKAQQTFFAALGAYNFCCRDIIPLVLEFLRPDRKDVTTQQQKALYCLLGNHSGVCLANLHDWDCIV  
 QTPALVSSGLSQAMSLEKPSIVRLFDDLAEKIHRQYETIGLDFITPKSCAAIAELLQQSKNPSISQTL  
 SPEKIKEGQKRQDKNADALRNYECLVNTLLDGVEQRNLPWKFEHIGIGLLSLLLRDDRVLPLRAIRFFV  
 ENLNHDAIVVRKMAISAVAGILKQLKRTHKLTINPYEISGCPKPTKILAGDRPDNHWLHYDSKNIPRTK  
 KEWESSCFVEKTHWGYYNWPKNMVMYAGVEEQPKLGRSREDMIEAEQIYDRFSDPKFVEQLITFLSLED  
 RKGRDKFSPRRFCLFKGIFRNFDDAFLPVLKPHLERLVADSHSTQRCVAEIIAGLIRGSKHWTFEVEK  
 LWELLCPLLRTALSNTVETYNDWGTCIATSCESRDPKRLHWLFELLESPLSGEGGSFVDACRLYVLQG  
 GLAQQEWVRPELLHRLKYLEPKLTQVYKNVRERIGSVLTYIFMIDVSLPNTAPTTPCPIPEFTARVLEK  
 LKPLTDVDEEIQNHVMEENGIGEEDERTQGKLLKTLKWLMSAGRSFSTAVKEQLQLLPLFFKIAPVE  
 NDNSYDELKRDACLCLSLMSQGLLYPQQVPLILQVLSQTARSSSWHARYTVLTYLQTMVFNLFIFLNNE  
 DAVKDIRWLIICLLEDEQLEVREMAATLSGLLQCNFLTMDSAMQIHFEQLCKTKLPKRRKRDPGSVGDT  
 IPSAELVKRHAGVLGLGACVLSSPYDVPTWMPQLLMNLSAHLNDPQPIEMTVKKTLSNFRRTHHDNWQEH  
 KQFTDDQLLVLTDLLVSPCYA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

- Tag:** C-MYC/DDK
- Predicted MW:** 211.6 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.

<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_598774</a>
<b>Locus ID:</b>	103554
<b>UniProt ID:</b>	<a href="#">Q5SSW2</a>
<b>RefSeq Size:</b>	6454
<b>Cytogenetics:</b>	11 A4
<b>RefSeq ORF:</b>	5529
<b>Synonyms:</b>	AA409398; AU041366; mKIAA0077; TEMO
<b>Summary:</b>	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]