

Product datasheet for **TP322965**

Proteasome Activator Subunit 4 (PSME4) (NM_014614) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human proteasome (prosome, macropain) activator subunit 4 (PSME4), 20 µg
Species:	Human
Expression Host:	HEK293T



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Expression cDNA Clone >RC222965 representing NM_014614
or AA Sequence: Red=Cloning site Green=Tags(s)

MEPAERAGVGEPEPPEPGRPEPGRGFVQKEIVYNKLLPYAERLDAESDLQLAQIKCNLGRAVQLQELWP
 GGLFWTRKLSYIRLYGRKFSKEDHVLFIKLLYELVSIPKLEISMMQGFARLLINLLKKKELLSRADLEL
 PWRPLYDMVERILYSKTEHLGLNWFNPNSVENILKTLVKSCRPFYFPADATAEMLEEWRLMCPFDVTMOKA
 ITYFEIFLPTSLPPELHHKGFKLWFDELIGLWWSVQNLQPWEGQLVNLFARLATDNIGYIDWDVPYVKIF
 TRILRSLNLPVGSSQVLVPRFLTNAVDIGHAVIWITAMMGGPSKLVQKHLAAGLNFNSITSFYHPSNNGRWL
 NKLMKLLQRLPNSVVRRLHREYKPKSWLTPVPDSHKLTDQDVTDFVQCIIQPVLLAMFSKTGSLEAAQA
 LQNLALMRPELVIPPVLERLYPALETLPHPQLTATLSCVIGVARSLVSGGRWFPEGPTHMLPLLMRALP
 GVDPNDFSKCMITFQFIATFSTLVPLVDCSSVLQERNLDEVERELCSATAEFEDFVLQFMDRCFGLIES
 STLEQTREETETEKMTHLESVELGLSSTFSTILTQCSKEIFMVALQKVFNFSTSHIFETRVRAGRMVADM
 CRAAVKCCPEESLKLFPVHCCSVITQLTMNDDVLNDEELDKELLWNLQLLSEITRVDGRKLLLYREQLVK
 ILQRTLHLTCKQGYTLSCNLLHLLRSTTLIYPTCYSPGGFDKPPSEYFPIKDWGKPGDLWNLGIQWH
 VPSSEEVSAFYLLDSFLQPELVKQHCGDGKLEMSRDDILQSLTIVHNCLIGSGNLLPPLKGEVPTNLV
 PSMVSLLEETKLYTGLEYDLSRENHREVIATVIRKLLNHILDNSEDDTKSLFLIIKIIGDLLQFQGSKHKE
 FDSRWKSFNLVKKSMENRLHGKKQHIRALLIDRVMLQHELRTLTVEGCEYKQIHKDMIRDLLRLSTSSYS
 QVRNKAQQTFFAALGAYNFCCRDIIPLVLEFLRPDRQGVTTQQQFKGALYCLGNHSGVCLANLHDWDWCIV
 QTWPAIVSSGLSQAMSLEKPSIVRLFDDLAEKIHRQYETIGLDFITPKSCVEIAELLQQSKNPSINQILL
 SPEKIKEGIRQEQKNADALRNYENLVDTLLDGEVQRNLPWKFEHIGIGLLSLLLRDDRVLPLRAIRFFV
 ENLNHDAIVVRKMAISAVAGILKQLKRTHKLTINPCEISGCPKPTQIIAGDRPDNHWLHYDSKTIPTK
 KEWESSCFVEKTHWGYTWPKNMVVYAGVEEQPKLGRSREDMTEAEQIIFDHFSDPKFVEQLITFLSLED
 RKGKDKFNPRRFCLFKGIFRNFDDAFLPVLKPHLEHLVADSHSTQRCAEIIAGLIRGSKHWTFEKVEK
 LWELLCPLLRALSNTVETYNDWGACIATSCESRDPKRLHWLFELLESPLSGEGGSFVDACRLVYVQGL
 GLAQEQWRVPELLHRLKYLEPKLTQVYKNVRERIGSVLTYIFMIDVSLPNTTPTISP HVPEFTARILEK
 LKPLMDVDEEIQNHVMEENGIGEEDERTQGIKLLKTLKWL MASAGRSFSTAVTEQLQLLPLFFKIAPVE
 NDNSYDELKRDAKLCLSLMSQGLLYPHQVPLVLQVLKQTARSSSWHARYTVLTYLQTMVFNLFIFLNNE
 DAVKDIRWLVISLLEDEQLEVREMAATTLGSLQCNTLMDSPMQIHFEQLCKTKLPKRRKRDPGSVGDT
 IPSAELVKRHAGVLGLGACVLSSPYDVPTWMPQLLMNLSAHLNDPQPIEMTVKKTLSNFRRTHHDNWQEH
 KQFTDDQLLVLTDLLVSPCYA

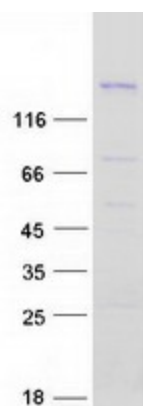
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

- Tag:** C-Myc/DDK
- Predicted MW:** 211.2 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.
RefSeq:	NP_055429
Locus ID:	23198
UniProt ID:	Q14997
RefSeq Size:	7101
Cytogenetics:	2p16.2
RefSeq ORF:	5529
Synonyms:	PA200
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]

Protein Pathways: Proteasome

Product images:



Coomassie blue staining of purified PSME4 protein (Cat# TP322965). The protein was produced from HEK293T cells transfected with PSME4 cDNA clone (Cat# [RC222965]) using MegaTran 2.0 (Cat# [TT210002]).