

## Product datasheet for TP302809M

## OriGene Technologies, Inc.

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## PSMC6 (NM\_002806) Human Recombinant Protein

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human proteasome (prosome, macropain) 26S subunit, ATPase, 6

(PSMC6), 100 µg

Species: Human
Expression Host: HEK293T

**Expression cDNA Clone** >RC202809 protein sequence or AA Sequence: Red=Cloning site Green=Tags(s)

MADPRDKALQDYRKKLLEHKEIDGRLKELREQLKELTKQYEKSENDLKALQSVGQIVGEVLKQLTEEKFI VKATNGPRYVVGCRRQLDKSKLKPGTRVALDMTTLTIMRYLPREVDPLVYNMSHEDPGNVSYSEIGGLSE QIRELREVIELPLTNPELFQRVGIIPPKGCLLYGPPGTGKTLLARAVASQLDCNFLKVVSSSIVDKYIGE SARLIREMFNYARDHQPCIIFMDEIDAIGGRRFSEGTSADREIQRTLMELLNQMDGFDTLHRVKMIMATN RPDTLDPALLRPGRLDRKIHIDLPNEQARLDILKIHAGPITKHGEIDYEAIVKLSDGFNGADLRNVCTEA

GMFAIRADHDFVVQEDFMKAVRKVADSKKLESKLDYKPV

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV** 

Tag: C-Myc/DDK

**Predicted MW:** 44 kDa

**Concentration:**  $>0.05 \mu g/\mu L$  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 002797





**Locus ID:** 5706

UniProt ID: <u>P62333</u>, <u>A0A087X2I1</u>

RefSeq Size: 1599 Cytogenetics: 14q22.1 RefSeq ORF: 1167

**Synonyms:** p42; RPT5; SUG2

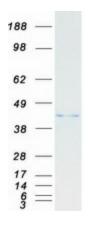
**Summary:** The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure

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. Pseudogenes have been identified on

chromosomes 8 and 12. [provided by RefSeq, Jul 2008]

**Protein Pathways:** Proteasome

## **Product images:**



Coomassie blue staining of purified PSMC6 protein (Cat# [TP302809]). The protein was produced from HEK293T cells transfected with PSMC6 cDNA clone (Cat# [RC202809]) using MegaTran 2.0 (Cat# [TT210002]).