

## **Product datasheet for PH302809**

## OriGene Technologies, Inc.

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## PSMC6 (NM 002806) Human Mass Spec Standard

**Product data:** 

**Product Type:** Mass Spec Standards

**Description:** PSMC6 MS Standard C13 and N15-labeled recombinant protein (NP\_002797)

Species: Human Expression Host: HEK293

Expression cDNA Clone or AA Sequence:

RC202809

Predicted MW:

44.2 kDa

Protein Sequence: >RC202809 protein sequence

Red=Cloning site Green=Tags(s)

MADPRDKALQDYRKKLLEHKEIDGRLKELREQLKELTKQYEKSENDLKALQSVGQIVGEVLKQLTEEKFI VKATNGPRYVVGCRRQLDKSKLKPGTRVALDMTTLTIMRYLPREVDPLVYNMSHEDPGNVSYSEIGGLSE QIRELREVIELPLTNPELFQRVGIIPPKGCLLYGPPGTGKTLLARAVASQLDCNFLKVVSSSIVDKYIGE SARLIREMFNYARDHQPCIIFMDEIDAIGGRRFSEGTSADREIQRTLMELLNQMDGFDTLHRVKMIMATN RPDTLDPALLRPGRLDRKIHIDLPNEQARLDILKIHAGPITKHGEIDYEAIVKLSDGFNGADLRNVCTEA

GMFAIRADHDFVVQEDFMKAVRKVADSKKLESKLDYKPV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

Concentration: >0.05 µg/µL as determined by microplate BCA method

Labeling Method: Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3

**Storage:** Store at -80°C. Avoid repeated freeze-thaw cycles.

**Stability:** Stable for 3 months from receipt of products under proper storage and handling conditions.

**RefSeq:** NP 002797

RefSeq Size: 1599 RefSeq ORF: 1167

**Synonyms:** p42; RPT5; SUG2

Locus ID: 5706





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

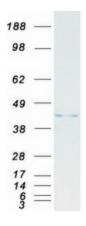
Cytogenetics: 14q22.1

**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]).