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# Product datasheet for TP305917L

## PSMA3 (NM_002788) Human Recombinant Protein

### Product data:

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|---|---|
| **Product Type:** | Recombinant Proteins |
| **Description:** | Recombinant protein of human proteasome (prosome, macropain) subunit, alpha type, 3 (PSMA3), transcript variant 1, 1 mg |
| **Species:** | Human |
| **Expression Host:** | HEK293T |
| **Expression cDNA Clone or AA Sequence:** | >RC205917 protein sequence<br>Red=Cloning site Green=Tags(s)<br><br>MSSIGTGYDLSASTFSPDGRVFQVEYAMKAVENSSTAIGIRCKDGVVFGVEKLVLSKLYEEGSNKRLFNV<br>DRHVGMAVAGLLADARSLADMAREEASNFRSNFGYNIPLKHLADRVAMYVHAYTLYSAVRPFGCSFMLGS<br>YSVNDGAQLYMIDPSGVSYGYWGCAIGKARQAAKTEIEKLQMKEMTCRDIVKEVAKIIYIVHDEVKDKAF<br>ELELSWVGELTNGRHEIVPKDIREEAEKYAKESLKEEDESDDDNM<br><br>SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| **Tag:** | C-Myc/DDK |
| **Predicted MW:** | 28.3 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_002779 |
| **Locus ID:** | 5684 |

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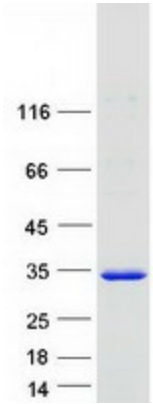
| **UniProt ID:** | P25788, A0A140VK43 |
| **RefSeq Size:** | 1014 |
| **Cytogenetics:** | 14q23.1 |
| **RefSeq ORF:** | 765 |
| **Synonyms:** | HC8; PSC3 |
| **Summary:** | The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure 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. 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 a member of the peptidase T1A family, that is a 20S core alpha subunit. Two alternative transcripts encoding different isoforms have been identified. [provided by RefSeq, Jul 2008] |
| **Protein Families:** | Druggable Genome, Protease, Stem cell - Pluripotency |
| **Protein Pathways:** | Proteasome |

## Product images:




Coomassie blue staining of purified PSMA3 protein (Cat# [TP305917]). The protein was produced from HEK293T cells transfected with PSMA3 cDNA clone (Cat# [RC205917]) using MegaTran 2.0 (Cat# [TT210002]).

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