

## Product datasheet for **TP312322**

### **CAPNS1 (NM\_001749) Human Recombinant Protein**

#### **Product data:**

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human calpain, small subunit 1 (CAPNS1), transcript variant 1, 20 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC212322 representing NM\_001749

**Red**=Cloning site **Green**=Tags(s)

MFLVNSFLKGGGGGGGGGGGLGGGLGNVLGGLISGAGGGGGGGGGGGGGGGGGGGGGGTAMRILGGVISAIS  
EAAAQYNPEPPPPRTHYSNIEANESEEVQRRLFAQLAGDDMEVSATELMNINLKWVTRHPDLKTDGFG  
IDTCRSMVAVMDSDTTGKLGFEFKYLWNNIKRWQAIYKQFDTDRSGTICSELPGAFAEAGFHLNEHLY  
NMIIRRYSDESGNMDFDNFISCLVRLDAMFRAFKSLDKDGTGQIQVNIQEWLQLTMYS

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 28.1 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\\_001740](#)

**Locus ID:** 826

**UniProt ID:** [P04632](#)



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RefSeq Size: 1492

Cytogenetics: 19q13.12

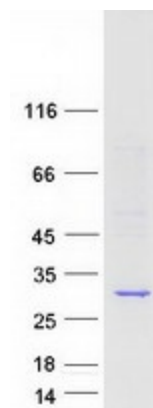
RefSeq ORF: 804

Synonyms: CALPAIN4; CANP; CANPS; CAPN4; CDPS; CSS1

**Summary:** This gene is a member of the calpain small subunit family. Calpains are calcium-dependent cysteine proteinases that are widely distributed in mammalian cells. Calpains operate as heterodimers, comprising a specific large catalytic subunit (calpain 1 subunit in Calpain I, and calpain 2 subunit in Calpain II), and a common small regulatory subunit encoded by this gene. This encoded protein is essential for the stability and function of both calpain heterodimers, whose proteolytic activities influence various cellular functions including apoptosis, proliferation, migration, adhesion, and autophagy. Calpains have been implicated in neurodegenerative processes, such as myotonic dystrophy. A pseudogene of this gene has been defined on chromosome 1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]

**Protein Families:** Druggable Genome, Protease

### Product images:



Coomassie blue staining of purified CAPNS1 protein (Cat# TP312322). The protein was produced from HEK293T cells transfected with CAPNS1 cDNA clone (Cat# [RC212322]) using MegaTran 2.0 (Cat# [TT210002]).