

## Product datasheet for **TP302727L**

### **HUS1 (NM\_004507) Human Recombinant Protein**

#### **Product data:**

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human HUS1 checkpoint homolog (*S. pombe*) (HUS1), 1 mg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC202727 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MKFRAKIVDGAACLNHFTRISNMIAKLAKTCTLRISPDKLNFILCDKLANGGVSMWCELEQENFFNEFQME  
GVSAENNEIYLELTSENLSRALKTAQNARALKIKLTNKHFPCLTVSVELLSMSSSRIVTHDIPKIVIPR  
KLWKDLQEPVVPDPDVSILPVLKTMKSVVEKMKKNISNHLVIEANLDGELNLKIETELVCVTTHFKDLGN  
PPLASESTHEDRNVEHMAEVHIDIRKLLQFLAGQQVNPTKALCNIVNNKMVHFDLLHEDVSLQYFIPALS

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 31.5 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\\_004498](#)

**Locus ID:** 3364

**UniProt ID:** [O60921](#), [A4D2F2](#)



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RefSeq Size: 3033

Cytogenetics: 7p12.3

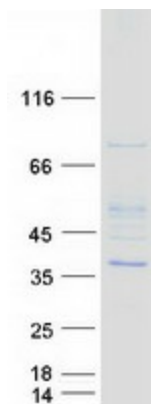
RefSeq ORF: 840

Synonyms: hHUS1

**Summary:** The protein encoded by this gene is a component of an evolutionarily conserved, genotoxin-activated checkpoint complex that is involved in the cell cycle arrest in response to DNA damage. This protein forms a heterotrimeric complex with checkpoint proteins RAD9 and RAD1. In response to DNA damage, the trimeric complex interacts with another protein complex consisting of checkpoint protein RAD17 and four small subunits of the replication factor C (RFC), which loads the combined complex onto the chromatin. The DNA damage induced chromatin binding has been shown to depend on the activation of the checkpoint kinase ATM, and is thought to be an early checkpoint signaling event. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2011]

**Protein Families:** Druggable Genome

### Product images:



Coomassie blue staining of purified HUS1 protein (Cat# [TP302727]). The protein was produced from HEK293T cells transfected with HUS1 cDNA clone (Cat# [RC202727]) using MegaTran 2.0 (Cat# [TT210002]).