

## Product datasheet for **TP504886**

### Gatsl3 (NM\_028022) Mouse Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Purified recombinant protein of Mouse cytosolic arginine sensor for mTORC1 subunit 1 (Castor1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug

**Species:** Mouse

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >MR204886 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MELHILEHRVRLSIARPGWLWLYTHPLIKLLFLPCRSRCKFFSLTETPEDYTLMVDEEGFKELPPSEFLQ  
VAEATWLVMMNVSHSGSVVQAAGVTKIARSVIAPLAEHHSVLMMLSTYQTDFFILVREQDLSVVIHTLAQEF  
QIYREVGGEPPVPTGDDSSNGFPQIQHGSPVTHPIQSPQNRFCVLTDPETLPAVATTLIDVLFYSHSV  
PKEAASGGPESTSIPFFAFSLIEGYISIVMDAEIQRKFPDLLLLTSSSGELWRMVRIGGQPLGFDECGIV  
AQIAGPLAAVDISAYYISTFNFHDHALVPEDEIGCVIDLQRRQESQASKDP

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-MYC/DDK

**Predicted MW:** 36.6 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

**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 after receiving vials.

**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\\_082298](#)

**Locus ID:** 71962

**UniProt ID:** [Q9CWQ8](#)



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RefSeq Size: 1570

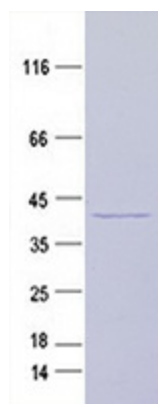
Cytogenetics: 11 A1

RefSeq ORF: 996

Synonyms: 2410008K03Rik; Castor1

**Summary:** Functions as an intracellular arginine sensor within the amino acid-sensing branch of the TORC1 signaling pathway. As a homodimer or a heterodimer with CASTOR2, binds and inhibits the GATOR subcomplex GATOR2 and thereby mTORC1. Binding of arginine to CASTOR1 allosterically disrupts the interaction of CASTOR1-containing dimers with GATOR2 which can in turn activate mTORC1 and the TORC1 signaling pathway.[UniProtKB/Swiss-Prot Function]

### Product images:



Purified recombinant protein Gatsl3 was analyzed by SDS-PAGE gel and Coomossie Blue Staining.