

## Product datasheet for **TP300474L**

### **GATM (NM\_001482) Human Recombinant Protein**

#### **Product data:**

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human glycine amidinotransferase (L-arginine:glycine amidinotransferase) (GATM), nuclear gene encoding mitochondrial protein, 1 mg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC200474 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MLRVRCLRGGSRGAEAVHYIGSRLGRTLWGWWQRTFQSTQAATASSRNSCAADDKATEPLPKDCPVSSYN  
EWDPLEEVIVGRAENACVPPFTIEVKANTYEKYWPFYQKQGGHYFPKDHLKKAFAEIEEMCNILKTEGVT  
VRRPDPIDWSLKYKTPDFESTGLYSAMPDILIVVGNIEAPMAWRSRFFEYRAYRSIIKDYFHRGAKW  
TTAPKPTMADELYNQDYPIHSVEDRHKLAQAQGFVTFEFCFDAADFIRAGRDIFAQRSQVTNYLGI EW  
MRRHLAPDYRVHII SFKDPNPMHIDATFNII GPGIVLSNPDRPCHQIDL FKKAGWTIITPPTPIIPDDHP  
LWMSSKWLSMNVLM LDEKRV MVDANEVPIQKMF EKLGITTIKVNIRNANSLGGGFHCWTC DVRRRGLTQS  
YLD

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 44.2 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.



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RefSeq: [NP\\_001473](#)

Locus ID: 2628

UniProt ID: [P50440](#), [A0A140VK19](#)

RefSeq Size: 2602

Cytogenetics: 15q21.1

RefSeq ORF: 1269

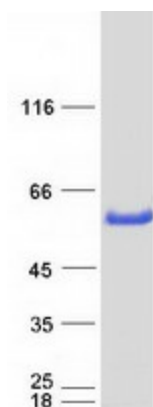
Synonyms: AGAT; AT; CCDS3; FRTS1

**Summary:** This gene encodes a mitochondrial enzyme that belongs to the amidinotransferase family. This enzyme is involved in creatine biosynthesis, whereby it catalyzes the transfer of a guanido group from L-arginine to glycine, resulting in guanidinoacetic acid, the immediate precursor of creatine. Mutations in this gene cause arginine:glycine amidinotransferase deficiency, an inborn error of creatine synthesis characterized by cognitive disability, language impairment, and behavioral disorders. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome

**Protein Pathways:** Arginine and proline metabolism, Glycine, serine and threonine metabolism, Metabolic pathways

### Product images:



Coomassie blue staining of purified GATM protein (Cat# [TP300474]). The protein was produced from HEK293T cells transfected with GATM cDNA clone (Cat# [RC200474]) using MegaTran 2.0 (Cat# [TT210002]).