

## Product datasheet for PH300474

### GATM (NM\_001482) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	GATM MS Standard C13 and N15-labeled recombinant protein (NP_001473)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200474
Predicted MW:	48.5 kDa
Protein Sequence:	>RC200474 protein sequence Red=Cloning site Green=Tags(s)

MLRVRCLRGGSRGAEAVHYIGSRLGRTL TGWVQRTFQSTQAATASSRNSCAADDKATEPLPKDCPVSSYN  
EWDPLEEVIVGRAENACVPPFTIEVKANTYKEYWPFYQKQGGHYFPKDHLKKAVAEIEEMCNILKTEGVT  
VRRPDPIDWSLKYPDFESTGLYSAMPRDILIVVGNIEIEAPMAWRSRFFEYRAYRSIIKDYFHRGAKW  
TTAPKPTMADEL YNQDYP IHSVEDRHKLA AQGKFVTTEFEP CFDAADFIRAGRDIFAQRSQVTNYLGI EW  
MRRHLAPDYRVHII SFKDPNPMHIDATFNIIGPGIVLSNPDRPCHQIDL FKKAGWTIITPPTPIIPDDHP  
LWMSSKWL SMNVLM LDEKRVMDANEVPIQKMFELGITT I KVNIRNANSLGGGFHCWTCVRRRGLQS  
YLD

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_001473</u>
RefSeq Size:	2602
RefSeq ORF:	1269
Synonyms:	AGAT; AT; CCDS3; FRTS1



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Locus ID: 2628

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

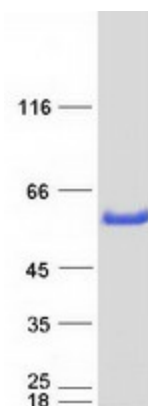
Cytogenetics: 15q21.1

**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]).