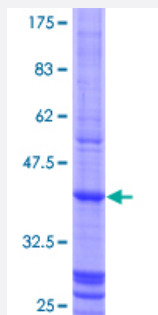


# GATM (Human) Recombinant Protein (Q01)

Catalog # H00002628-Q01

Size 25 ug, 10 ug

## Applications



## Specification

<b>Product Description</b>	Human GATM partial ORF ( NP_001473.1, 1 a.a. - 100 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Sequence</b>	MLRVRCLRGGSRGAEAVHYIGSRLGRTLGTWVQRTFQSTQAATASSRNSCAADDKATEPLPKDC PVSSYNEWDPLEEVIVGRAENACVPPFTIEVKANTY
<b>Host</b>	Wheat Germ (in vitro)
<b>Theoretical MW (kDa)</b>	36.74
<b>Preparation Method</b>	<a href="#">in vitro wheat germ expression system</a>
<b>Purification</b>	Glutathione Sepharose 4 Fast Flow
<b>Quality Control Testing</b>	12.5% SDS-PAGE Stained with Coomassie Blue.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Storage Instruction</b>	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — GATM

Entrez GeneID [2628](#)

GeneBank Accession# [NM\\_001482](#)

Protein Accession# [NP\\_001473.1](#)

Gene Name GATM

Gene Alias AGAT, AT

Gene Description glycine amidinotransferase (L-arginine:glycine amidinotransferase)

Omim ID [602360](#)

Gene Ontology [Hyperlink](#)

**Gene 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 mental retardation, language impairment, and behavioral disorders. [provided by RefSeq]

**Other Designations** L-arginine:glycine amidinotransferase|transamidinase

## Pathway

- [Arginine and proline metabolism](#)
- [Glycine](#)
- [Metabolic pathways](#)

## Disease

- [Kidney Failure](#)