**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for TP300528M

## GAMT (NM_000156) Human Recombinant Protein

### Product data:

| | |
|---|---|
| **Product Type:** | Recombinant Proteins |
| **Description:** | Recombinant protein of human guanidinoacetate N-methyltransferase (GAMT), transcript variant 1, 100 µg |
| **Species:** | Human |
| **Expression Host:** | HEK293T |
| **Expression cDNA Clone or AA Sequence:** | Recombinant protein was produced with TrueORF clone, RC200528. |
| **Tag:** | C-Myc/DDK |
| **Predicted MW:** | 26.1 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_000147 |
| **Locus ID:** | 2593 |
| **UniProt ID:** | Q14353, V9HWB2 |
| **RefSeq Size:** | 1138 |
| **Cytogenetics:** | 19p13.3 |
| **RefSeq ORF:** | 708 |
| **Synonyms:** | CCDS2; HEL-S-20; PIG2; TP53I2 |

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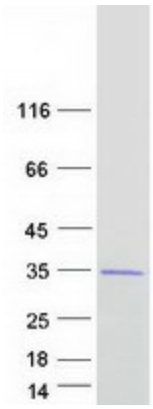
**Summary:** The protein encoded by this gene is a methyltransferase that converts guanidoacetate to creatine, using S-adenosylmethionine as the methyl donor. Defects in this gene have been implicated in neurologic syndromes and muscular hypotonia, probably due to creatine deficiency and accumulation of guanidinoacetate in the brain of affected individuals. Two transcript variants encoding different isoforms have been described for this gene. Pseudogenes of this gene are found on chromosomes 2 and 13. [provided by RefSeq, Feb 2012]

**Protein Families:** Druggable Genome

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

## Product images:




Coomassie blue staining of purified GAMT protein (Cat# [TP300528]). The protein was produced from HEK293T cells transfected with GAMT cDNA clone (Cat# [RC200528]) using MegaTran 2.0 (Cat# [TT210002]).