

Product datasheet for **RG200528**

GAMT (NM_000156) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GAMT (NM_000156) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GAMT
Synonyms:	CCDS2; HEL-S-20; PIG2; TP53I2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200528 representing NM_000156 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCGCCCCAGCGGACCCCATCTTCGCGCCGCGGAGAAGTGCAGCCCCGCGTGGGGGGCGGCGC
CCGCGCCTACGACGCAGCGGACACGCACCTGCGCATCTGGGCAAGCCGGTGATGGAGCGCTGGGAGAC
CCCCTATATGCACGCGCTGGCCGCGCCGCTCCTCAAAGGGGGCCGGTCTGGAGGTGGCTTTGGC
ATGGCCATCGCAGCGTCAAAGGTCAGGAGGCGCCATTGATGAGCATTGGATCATCGAGTGCAATGACG
GCGTCTTCCAGCGGCTCCGGGACTGGGCCCCACGCGAGACACACAAGGTCATCCCCTTGAAGGCCTGTG
GGAGGATGTGGCACCCACCCTGCCTGACGGTCACTTTGATGGGATCCTGTACGACACGTACCCACTCTCG
GAGGAGACCTGGCACACACACCAGTTCAACTTCATCAAGAACCACGCTTTTCGCCTGCTGAAGCCGGGG
GCGTCCTCACCTACTGCAACCTCACCTCCTGGGGGAGCTGATGAAGTCCAAGTACTCAGACATCCCAT
CATGTTTGAGGAGACGCAGGTGCCCGCGCTGCTGGAGGCCGGCTTCCGGAGGGAGAATCCGTACGGAG
GTGATGGCGTGGTCCCACCGCCGACTGCCGCTACTACGCTTCCCACAGATGATCACGCCCTGGTGA
CCAAAGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_000156.6](#)

RefSeq Size: 1086 bp

RefSeq ORF: 711 bp

Locus ID: 2593

UniProt ID: [Q14353](#)

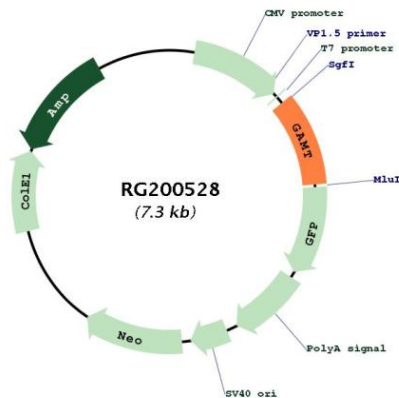
Cytogenetics: 19p13.3

Protein Families: Druggable Genome

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

Gene 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]

Product images:



Circular map for RG200528