

Product datasheet for **SC321307**

GATM (NM_001482) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GATM (NM_001482) Human Untagged Clone
Tag:	Tag Free
Symbol:	GATM
Synonyms:	AGAT; AT; CCDS3; FRTS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001482.2
 CGGGAAGGCTTGGACCGACGCGGCCAGAGGCCAGGAACATTCGCGCGTGGACCAGCCG
 GGCCAGGGCGATGCTGCGGGTGCGGTGTCTGCGCGGGGAGCCGCGGCCGAGGCGGT
 GCACTACATCGGATCTCGGCTTGGACGAACCTTGACAGGATGGGTGCAGCGAACTTTCCA
 GAGCACCAGGCAGCTACGGCTTCTCCCGAACTCCTGTGCAGCTGACGACAAAAGCCAC
 TGAGCCTCTGCCAAGGACTGCCCTGTCTTCTTACAACGAATGGGACCCCTTAGAGGA
 AGTGATAGTGGCAGAGCAGAAAACGCCCTGTGTTCCACCGTTCACCATCGAGGTGAAGGC
 CAACACATATGAAAAGTACTGGCCATTTTACCAGAAGCAAGGAGGGCATTATTTTCCCAA
 AGATCATTGAAAAAGGCTGTTGCTGAAATTGAAGAAATGTGCAATATTTTAAAAACGGA
 AGGAGTGACAGTAAGGAGGCCTGACCCATTGACTGGTCATTGAAGTATAAACTCCTGA
 TTTTGAGTCTACGGTTTATACAGTGCAATGCCTCGAGACATCCTGATAGTTGTGGGCAA
 TGAGATTATCGAGGCTCCCATGGCATGGCGTTCACGCTTCTTTGAGTACCGAGCGTACAG
 GTCAATTATCAAAGACTACTCCACCGTGGCGCCAAGTGGACAACAGCTCCTAAGCCAC
 AATGGCTGATGAGCTTTATAACCAGGATTATCCCATCCACTCTGTAGAAGACAGACACAA
 ATTGGCTGCTCAGGAAAATTTGTGACAACTGAGTTTGAGCCATGCTTTGATGCTGCTGA
 CTTCAATTCGAGCTGGAAGAGATATTTTGCACAGAGAAGCCAGGTTACAAACTACCTAGG
 CATTGAATGGATGCGTAGGCATCTTGCTCCAGACTACAGAGTGCATATCATCTCCTTTAA
 AGATCCCAATCCCATGCATATTGATGCTACCTCAACATCATTGGACCTGGTATTGTGCT
 TTCCAACCCTGACCGACCATGTCACCAGATTGATCTTTTCAAGAAAGCAGGATGGACTAT
 CATTACTCCTCCAACCAATCATCCCAGACGATCCTCACTCTGGATGTCATCCAAATG
 GCTTTCCATGAATGTCTTAATGCTAGATGAAAAACGTGTTATGGTGGATGCCAATGAAGT
 TCCAATTCAAAAGATGTTTAAAAAGCTGGGTATCACTACCATTAAGTAAACATTCGTAA
 TGCCAATTCCCTGGGAGGAGGCTTCCATTGCTGGACCTGCGATGTCGGCGCCGAGGCAC
 CTTACAGTCCACTTGGACTGAACAGGCCTGATGGAGCTTGTGGCTGGCCTCAGATACAC
 CTAAGAAGCTTAGGGCAAGGTTCAATTCTCCTGCTTTAAAAAGTGCATGAACTGTAGTGC
 TTTAAACAATCATCTCCTAACAGGGGTCGTAAGCCTGGTTTGCTTCTATTACTTTTCTT
 TGACATAAAGAAAATAACTTCTGCTAGGTATTACTCTACTCTAAAGTATTTACTAT
 TTGGCTTCAAGTATAAAATTTTGGTGAATGTGTACCAAGAAAAAATTAGTACCTGAGTA
 ACTTGGCCACTAATAATTAACCATCTACCTCTGTTTTTAAATTTTCTTTCCAAAAGGCAGC
 TTGAAATGTTGGTCCTAATCTTAATTTTTTCTCTTCTATAGACTTGAGAATGTTTTT
 CTCTAAATGAGAGAAAGACTTAGAATGTACACAGATCCAAAATAGAATCAGATTATCTCT
 TTTTTTCTAAAGGAGAGAAAGACTTAGAACATACACAGATCCTAAGTAGAACCCAGGTAAT
 TGCTCTTTTTTCTAATAAGGAATTTGGTAATTTTTTAAATTTTTTGTTTTTTAAAAAATAA
 CCTAGACTATGCAAAACATCAAAGTGAATTTTCCATGAATGTTTTTAAATTTCTCATCTC
 AACATTGTGATATATGCTACTAAAAACCTTTTCATATACATCTTACCTCATTTCAGTGA
 ATTATTTTAACTTTTTCTCTTTTCCAAAAATTTAGGAATGTTTAGTGAATTTGGATTT
 CGCTATCAGTTCATCCTTAAGTTTTGATATTCAATATCTGATAGATACACTGCATCTT
 TGGTCATCTAAGATTTGTTTACAAATGTGCAAAATTTTAGAGCATAGACTTTATAAGCA
 TTAAAAAAAATAATGGAGGTAACCTAAATGCGATGTGAAATAATTTTAGTGTGATA
 CCGTATGTGATTTTTATTCTAATAAACTTTTGTGTTCCAGAAAAAAAAAAAAAAAAAAAA
 AA

Restriction Sites: Please inquire

ACCN: NM_001482

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">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_001482.2 , NP_001473.1
RefSeq Size:	2602 bp
RefSeq ORF:	1272 bp
Locus ID:	2628
UniProt ID:	P50440
Cytogenetics:	15q21.1
Domains:	Amidino-transf
Protein Families:	Druggable Genome
Protein Pathways:	Arginine and proline metabolism, Glycine, serine and threonine metabolism, Metabolic pathways
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 cognitive disability, language impairment, and behavioral disorders. [provided by RefSeq, Jul 2008]