

## Product datasheet for **SC120079**

### **GAMT (NM\_000156) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GAMT (NM_000156) Human Untagged Clone
Tag:	Tag Free
Symbol:	GAMT
Synonyms:	CCDS2; HEL-S-20; PIG2; TP53I2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC120079 sequence for NM_000156 edited (data generated by NextGen Sequencing)

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ATGAGCGCCCCAGCGGACCCCATCTTCGCGCCCGGCGAGAAGTGCAGCCCCGCGTGG
GGGGCGGCGCCCGCGCCTACGACGCAGCGGACACGCACCTGCGCATCCTGGGCAAGCCG
GTGATGGAGCGCTGGGAGACCCCTATATGCACGCGCTGGCCGCCCGCCTCCTCCAAA
GGGGGCCGGTCTGGAGGTGGGCTTTGGCATGGCCATCGCAGCGTCAAAGGTGCAGGAG
GCGCCATTGATGAGCATTGGATCATCGAGTGCAATGACGGCGTCTTCCAGCGGCTCCGG
GACTGGGCCCCACGGCAGACACACAAGGTCATCCCCTTAAAAGGCCTGTGGGAGGATGTG
GCACCCACCTGCCTGACGGTCACTTTGATGGGATCCTGTACGACACGTACCCACTCTCG
GAGGAGACCTGGCACACACACAGTTCAACTTCATCAAGAACCACGCCTTTCGCCTGCTG
AAGCCGGGGGGCGTCTCACCTACTGCAACCTCACCTCCTGGGGGGAGCTGATGAAGTCC
AAGTACTCAGACATCACCATCATGTTTGAGGAGACGCAGGTGCCCGCGCTGCTGGAGGCC
GGCTTCCGGAGGAGAACATCCGTACGGAGGTGATGGCGCTGGTCCCACGGCCGACTGC
CGCTACTACGCCTTCCCACAGATGATCACGCCCTGGTGACCAAAGGCTGA
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Clone variation with respect to NM\_000156.4



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_000156 unedited</p> <pre>GGTCACAATTGTAACGACTCCTATAGGCGGCCGCGCATTTCGGCAGGAGGCGAGGTTCGGG TCGCCGTCCAGCCTGCAGCATGAGCGCCCCAGCGCGACCCCATCTTCGCGCCCGGCGA GAACTGCAGCCCCGCGTGGGGGGCGGCGCCCGCGGCTACGACGAGCGGACACGCACCT GCGCATCTGGGCAAGCCGGTGATGGAGCGCTGGGAGACCCCTATATGCACGCGCTGGC CGCCGCGCCTCCTCAAAGGGGGCCGGTCTGGAGGTGGGCTTTGGCATGGCCATCGCA GCGTCAAAGGTGCAGGAGGCGCCATTGATGAGCATTGGATCATCGAGTGAATGACGGC GTCTTCCAGCGGCTCCGGGACTGGGCCACGGCAGACACAAAGTCATCCCCTTGAAA GGCCTGTGGGAGGATGTGGCACCCACCCTGCTGACGGTCACTTTGATGGGATCCTGTAC GACACGTACCCACTCTCGGAGGAGACTGGCACACACACCAGTTCAACTTCATCAAGAAC CACGCCTTTCGCCTGCTGAAGCCGGGGGCGTCTCACCTACTGCAACCTCACCTNCTGG GGGGAGCTGATGAAGTCCAAGTACTCAGACATACCATCATGTTTGAGGAGACGCAGGTG CCCGCGTGTGGAGGCCGCTTCCGGAGGAGAACATCCGTACGGAGGTGATGGCGCTG GTCCACCGGCCGACTGGCGCTACTACGCCTTTCACAGATGATCAGCCCCCTGGTGAC CAAAGGCTGAGCCCCACCCCGCCGGGCACACCCATGCCCTCCTCGTGCCCTTCTGTG GCCGGAGTCCAAGCTGTCGCACCAGCCCTGGGCTGATCCAGCTGTGTGTAAAGAAAGCT TTCCCG</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_000156 unedited</p> <pre>NCGTGGGGGCGNACCACGCCCTTGTTTACTTTCACCTCAGGCACCCTGCAGTGGGCAGCAG TGACCCTCACATANAAGCTGGGAAAGCTGCTGGTGACACACAGCTGGGATCAGCCCTGGG CTGGTGGGACCCCTCACAGAGAAGCCGGGAAAGCTTCTGGTGACACACAGCTGGGATCAG CCCAGGGCTGGTGCACACCCTGGACTCCCGGCCAGGAATGCACGGAGGAGGGCATGGGT GTGGCCGGCCGGGTGGGGCTCAGCCTTTGGTACCAGGGGCGTGATCATCTGTGGGA AGCGTAGTAGCGGCAGTCGGCCGGTGGGACCAGCGCCATCACCTCCGTACGGATGTTCT CCCTCCGGAAGCCGACTCCAGCAGCGCGGGCACCTGCGTCTCCTCAAACATGATGGTGA TGCTGAGTACTTGGACTTCATCAGTCCCCCAGCAGGTGAGGTTGCAGTAGGTGAGGA CGCCCCCGGCTCAGCAGGCGAAAGGAGTGGNTCTTGATGAAGTTGAACTGGTGTGTGT GCCACGTCTCCTCCGAGAGTGGTACGTGTCTTACAGGATTCATTAAGTGACCGTCAGGC CAGGTGGGTGTACATCTCCACAAGCCTTNAAGGGGGTGACCCTTGTGTGCTCGCCG TGGGGCCANNCCGGAACCGCTGTAAGACCCCGGCATTTGCCTCCAAGATCCCATGGT ATCAATGGTTGCCTTCTGTTCTCTTTGCCNCTGCGATCGTTCTNTCCAATACCCACCTT CNGGNCCCGGCTCCCTTTCAGCAGCAGCTGTGNTNGTGCCATTACGTGCTTAAAAGAGG GGCGACCAATCTAGACTCCTTACCCCTCTCTCCCAGGAAGCCNAAACGACTGTATCT CCTCATCCATAATGTCCTCGGGACCGCTGCTCCCATGAGAGCANCATAATACTGACCGT CTACGCCCNAG</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_000156
<b>Insert Size:</b>	1170 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_000156.4</a> , <a href="#">NP_000147.1</a>
<b>RefSeq Size:</b>	1086 bp
<b>RefSeq ORF:</b>	711 bp
<b>Locus ID:</b>	2593
<b>UniProt ID:</b>	<a href="#">Q14353</a>
<b>Cytogenetics:</b>	19p13.3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Arginine and proline metabolism, Glycine, serine and threonine metabolism, Metabolic pathways
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) is the longer transcript but encodes the shorter isoform (a).</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>