

## Product datasheet for SC307070

### GATC (NM\_176818) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GATC (NM_176818) Human Untagged Clone
Tag:	Tag Free
Symbol:	GATC
Synonyms:	15E1.2; COXPD42
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC307070 representing NM_176818. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTGGTCGCGGTTGGTGTGGCTGGGCCTTCGGGCCCTCTGGGCGGGCGCCAGGGCTTCACCTCCAAG
GCGGATCCTCAGGGCAGTGGCCGGATCACGGCTGCGGTGATCGAGCACCTGGAGCGTCTAGCGCTTGTG
GACTTCGGCAGCCGCGAGGCAGTGGCGGACTGGAGAAAGCTATCGCCTTCGCCGACCGGCTACGCGCC
GTGGACACAGACGGGTGGAGCCATGGAATCGGTCCTGGAGGACAGATGTCTATACCTGAGATCCGAC
AATGTGGTAGAAGCAACTGTGCTGATGAATTACTACAAAACCCATCGCGTCTGGAGGAGTACTTT
GTGGCCCCCAGGTAATATCTCTTTGCCAAAGCTGGATGAACAAGAGCCATTCCACACAGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites:	SgfI-MluI
ACCN:	NM_176818
Insert Size:	411 bp
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.



<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_176818.2</a>
<b>RefSeq Size:</b>	4248 bp
<b>RefSeq ORF:</b>	411 bp
<b>Locus ID:</b>	283459
<b>UniProt ID:</b>	<a href="#">O43716</a>
<b>Cytogenetics:</b>	12q24.31
<b>MW:</b>	15.1 kDa
<b>Gene Summary:</b>	<p>Allows the formation of correctly charged Gln-tRNA(Gln) through the transamidation of misacylated Glu-tRNA(Gln) in the mitochondria. The reaction takes place in the presence of glutamine and ATP through an activated gamma-phospho-Glu-tRNA(Gln).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the shorter transcript. 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>