

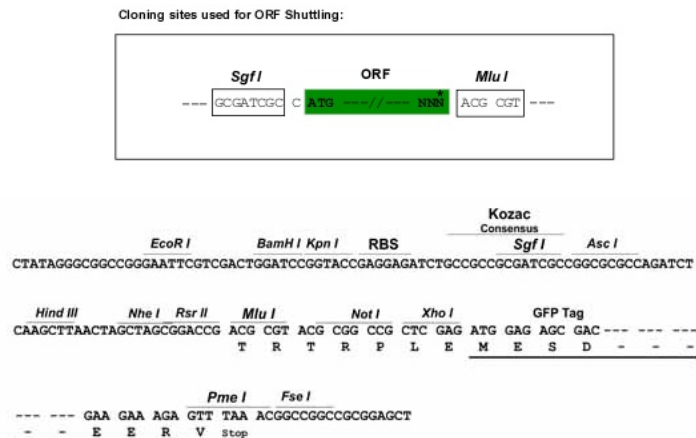
Product datasheet for **RG215964**

GATC (NM_176818) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GATC (NM_176818) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GATC
Synonyms:	15E1.2; COXPD42
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<p>>RG215964 representing NM_176818</p> <p>Red=Cloning site Blue=ORF Green=Tags(s)</p> <p>TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC</p> <p>ATGTGGTCGCGGTTGGTGTGGCTGGGCCTTCGGGCCCTCTGGGCGGGCGCCAGGGCTTCACCTCCAAGGCGGATCCTCAGGGCAGTGGCCGGATCACGGCTGCGGTGATCGAGCACCTGGAGCGTCTAGCGCTTGTGGACCTCGGCAGCCGCGAGGCAGTGGCGGACTGGAGAAAGCTATCGCCTTCGCCACCGGTACGCGCCGTGACACAGACGGGTGGAGCCCATGGAATCGGTCTGGAGGACAGATGTCTATACCTGAGATCCGACAATGTGGTAGAAGGCAACTGTGCTGATGAATTACTACAAAACCTCCATCGCGTCGTGGAGGAGTACTTTGTGGCCCCCAGGTAATATCTCTTTGCCAAAGCTGGATGAACAAGGCCATTCCACACAGCTG</p> <p>ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA</p>
Protein Sequence:	<p>>RG215964 representing NM_176818</p> <p>Red=Cloning site Green=Tags(s)</p> <p>MWSRLVWLGLRAPLGGRQGFSTKADPQSGRITAAVIEHLERLALVDFGSREAVARLEKAI AFADRLRAVDTDGVEPMESVLEDRCLYL RSDNVVEGNCADELLQNSHRVVEEYFVAPPGNISLPKLDEQEPPPHS</p> <p>TRTRPLE - GFP Tag - V</p>
Restriction Sites:	Sgfl-MluI


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Cloning Scheme:


ACCN: NM_176818

ORF Size: 410 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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.

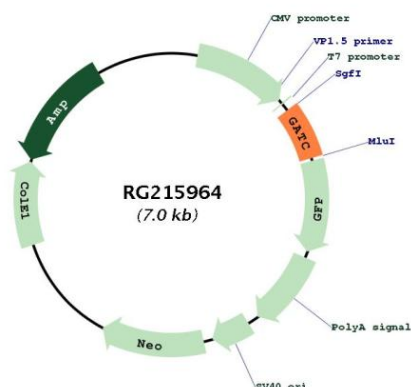
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_176818.1](#), [NP_789788.1](#)

RefSeq Size: 411 bp

RefSeq ORF:	411 bp
Locus ID:	283459
UniProt ID:	<u>O43716</u>
Cytogenetics:	12q24.31
Gene Summary:	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]

Product images:



Circular map for RG215964