

Product datasheet for **MG201151**

Gatc (NM_029645) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: Gatc
Synonyms: 2010003O18Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG201151 representing NM_029645
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGGTCACGGGCGCGAGTGTGCGATTCGGGCCCGCTGGACGCGGGCCGAAGCTTTGCTTCCAAAG
CGAATCCACAGGAAAGGTCCAGGCGGGGGCTGGGACCCAGGCTCCACGTCTCGTCCCCAGGGCAG
CGGTCGCGTGTCCCCGCGTAATCGAGCATCTGGAGCGACTGGCGCTGGTGAATTCGGCAGCCGCGAG
GCGGTGGACGGCTAGAGAAAGCCATCGCCTTTGCGGATCAGCTGCACGCCGTGGACACTGACGGTGTGG
AGCCCCTAGAGTCGGTACTGGAGGACAGATGTCTCTACTTGAGATCTGACAATGTTGCAGAAGGCAGCTG
TGCTGAAGAACTACTACAGAATCCAATCACGTTGTGGAGGAATACTTTGTGGCCCCCAGGTAATATT
TCCTTGCCAGACATGGTAAACAAGATTCCTTCTCCACAGTAGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

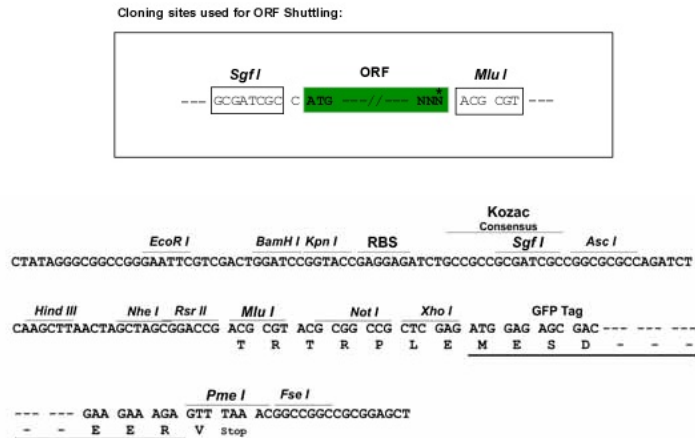
Protein Sequence: >MG201151 representing NM_029645
Red=Cloning site Green=Tags(s)

MWSRAASVRFRAPLDAGRSFASKANPQGKVAAGLGTQAPRLVPQGSGRVSPAVIEHLERLALVNFSGRE
AVDGLEKAI AFADQLHAVDTDGVEPLESVLEDRCLYLRSDNVAEGSCAEELLQNSNHVVEEYFVAPPNGNI
SLPDMVINKIPSSTVE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:


ACCN: NM_029645

ORF Size: 465 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_029645.2](#), [NP_083921.1](#)

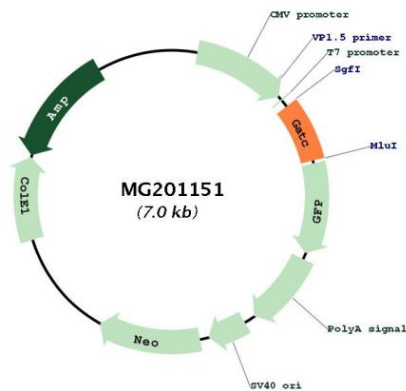
RefSeq Size: 1778 bp
RefSeq ORF: 468 bp
Locus ID: 384281

UniProt ID: [Q8CBY0](#)

Cytogenetics: 5 F

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 MG201151