

Product datasheet for **RN205903**

Gatc (NM_001108339) Rat Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Gatc (NM_001108339) Rat Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Gatc |
| Synonyms: | RGD1309698 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Fully Sequenced ORF: | >RN205903 representing NM_001108339 Red=Cloning site Blue=ORF Orange=Stop codon |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGGCACAGGCGGCGAGGGTGCAATTCGGGCTCCTCTGGACCGGGCCGAAGTTTTGCTTCCAAAG
TGGGTCCACGCGAAAGGTCCAGGCGGCGGACCCGAAGACCCAGGCTCCACGCCTAGTCCCGAGGGCAC
CGATCGCGTGTCCGCCGGTAGTCGAGCATCTGGAGCGGCTGGCACTGGTGAATTCAGCAGCCGCGAG
GCGGTGGACCGGCTAGAGAAAGCCGTGGCCTTTGCCACCAGCTGCACGCCGTGGACACCGAGGGGTGG
AGCCCCTGGAGTCGGTTCTGGAGGACAGATGTCTCTACCTGAGATCTGACAAGGTAGCCGAAGGCGGCTG
TGCAAGAAGAACTACTACAGAACTCAAATCACGTTGTGGAGGAGTACTTTGTGGCCCCCAGGTAATATT
CCTTTGCCAGACATGGTGGCAAGGTCCCTTCTCCACAGCAGAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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| Restriction Sites: | Sgfl-MluI |
| ACCN: | NM_001108339 |
| Insert Size: | 468 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).



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| 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: | <u>NM_001108339.1, NP_001101809.1</u> |
| RefSeq Size: | 1967 bp |
| RefSeq ORF: | 468 bp |
| Locus ID: | 360821 |
| UniProt ID: | <u>D3ZY68</u> |
| Cytogenetics: | 12q16 |
| 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] |