

Product datasheet for **MG206739**

Gatm (NM_025961) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Gatm (NM_025961) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Gatm |
| Synonyms: | 1810003P21Rik; AI314789; AT |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG206739 representing NM_025961 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTACGGGTGCGGTGTCTGCGCGGAGGCAGCCGAGGTGCCGAGGCGGTGCACTACATCGGCTCTCGGC
TTGGAGGATCCTAACAGGATGGGTGCAGCGAACTTCCAGAGCACCCAGGCAGCTACAGCTTCTCCCG
AAATTCCTGTGCAGCTGAAGACAAGGCCACCCATCCTCTGCCAAGGACTGCCCTGTCTCTCTTACAAC
GAATGGGACCCTTAGAGGAAGTGATAGTGGGCAGAGCTGAAAAATGCCTGTGTGCCACCATTACAGTGG
AGGTGAAGGCCAATACATATGAAAAGTACTGGCCATTTTACCAAAAAATGGAGGTCTTTATTTCCCAA
AGATCATCTGAAGAAGGCTGTTGCTGAGGTCGAAGAGATGTGCAATATTTATCAATGGAAGGAGTGACC
GTGAGGCGGCCTGACCCATCGACTGGTCACTCAAGTATAAGACTCCTGATTTTGTGCTACAGGTTTGT
ACAGCGCAATGCCTCGAGACATCCTGATGGTTGTGGGAAACGAGATTATAGAAGCACCCATGGCATGGCG
CTCACGCTTCTTTGAGTACCGAGCATACAGGTCAATTATCAAAGACTACTTCCATCGTGGTGCCAAGTGG
ACAACAGCACCCAAGCCACAATGGCTGACGAAGTGTATGACCAGAATTATCCATCCATTCCGTGGAAG
ACAGACACAAATTGGCCGCTCAGGGAAAGTTCGTGACGACTGAGTTTGTGCTTGGCTTTGATGCTGCTGA
CTTCATTCGAGCTGGAAGAGATATTTTGCACAGAGAAGCCAGGTTACAACTACCTGGGCATCGAGTGG
ATGCGTAGGCATCTTGCTCCAGACTACAGAGTACATATCATCTCTTTAAAGACCCCAATCCAATGCACA
TCGATGCCACCTTCAACATCATTGGACCTGGTCTTGTGCTCTCAACCCCGACCGTCTTGTGCATCAGAT
TGATCTTTTCAAGAAAGCAGGATGGACCATAGTTACTCCTCCAACACCAGTCATCCCGATGATCATCCC
CTCTGGATGTCATCCAAATGGCTTTCCATGAACGTCTTAATGCTAGATGAGAAGCGCGTGATGGTAGATG
CCAATGAAGTTCCAATTCAAAAGATGTTTGAGAAGCTGGGTATCAGTACCATTAAGGTTAACATTCGAAA
TGCCAATTCCTGGGAGGTGGCTTCCACTGCTGGACCTGCGACGTCGGCGCCGAGGCACCCCTCAGTCC
TACTTTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206739 representing NM_025961
 Red=Cloning site Green=Tags(s)

MLRVRCLRGGSRGAEAVHYIGSRLGGSLTGWVQRTFQSTQAATASSRNSCAAEDKATHPLPKDCPVSSYN
 EWDPLEEVI VGRAENACVPPFTVEVKANTYEKYWPFYQKNGGLYFPKDHLKKAVAEVEEMCNILSMEGVT
 VRRPDPIDWSLK YKTPDFESTGLYSAMPRDILMVVGNIEI EAPMAWRSRFFEYRAYRSIIKDYFHRGAKW
 TTAPKPTMADEL YDQNYPIHSVEDRHKLA AQGKFVTTTEFEP CFDAADFIRAGRDIFAQRSQVTNYLGI EW
 MRRHLAPDYRVHIISFKDPNPMHIDATFNIIIGPLVLSNPDRPCHQIDL FKKAGWTIVTPPTVPIPDHP
 LWMSSKWL SMNVLMLDEKRVMDANEVPIQKMF EKLGI STIKVNI RNANSLGGGFHCWTCVRRRGT LQS
 YFD

TRTRPLE - GFP Tag - V

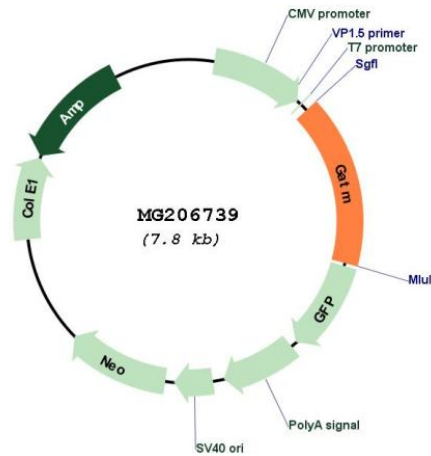
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_025961

| | |
|-------------------------------|---|
| ORF Size: | 1269 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: | <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: | NM_025961.3 |
| RefSeq Size: | 2419 bp |
| RefSeq ORF: | 1272 bp |
| Locus ID: | 67092 |
| UniProt ID: | Q9D964 |
| Cytogenetics: | 2 60.63 cM |
| Gene Summary: | Catalyzes the biosynthesis of guanidinoacetate, the immediate precursor of creatine. Creatine plays a vital role in energy metabolism in muscle tissues. May play a role in embryonic and central nervous system development.[UniProtKB/Swiss-Prot Function] |