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Product datasheet for MR206739

Gatm (NM_025961) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gatm (NM_025961) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gatm
Synonyms:	1810003P21Rik; AI314789; AT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR206739 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTACGGGTGCGGTGTCTGCGCGGAGGCAGCCGAGGTGCCGAGGCGGTGCACTACATCGGCTCTCGGC
TTGGAGGATCCTTAACAGGATGGGTGCAGCGAACTTTCCAGAGCACCCAGGCAGCTACAGCTTCCTCCCG
AAATTCCTGTGCAGCTGAAGACAAGGCCACCCATCCTCTGCCCAAGGACTGCCCTGTCTCCTCTTACAAC
GAATGGGACCCTTTAGAGGAAGTGATAGTGGGCAGAGCTGAAAATGCCTGTGTGCCACCATTCACAGTGG
AGGTGAAGGCCAATACATATGAAAAGTACTGGCCATTTTACCAAAAAAATGGAGGTCTTTATTTTCCCAA
AGATCATCTGAAGAAGGCTGTTGCTGAGGTCGAAGAGATGTGCAATATTTTATCAATGGAAGGAGTGACC
GTGAGGCGGCCTGACCCCATCGACTGGTCACTCAAGTATAAGACTCCTGATTTTGAGTCTACAGGTTTGT
ACAGCGCAATGCCTCGAGACATCCTGATGGTTGTGGGAAACGAGATTATAGAAGCACCCATGGCATGGCG
CTCACGCTTCTTTGAGTACCGAGCATACAGGTCAATTATCAAAGACTACTTCCATCGTGGTGCCAAGTGG
ACAACAGCACCCAAGCCCACAATGGCTGACGAACTGTATGACCAGAATTATCCCATCCATTCCGTGGAAG
ACAGACACAAATTGGCCGCTCAGGGAAAGTTCGTGACGACTGAGTTTGAGCCTTGCTTTGATGCTGCTGA
CTTCATTCGAGCTGGAAGAGATATTTTTGCACAGAGAAGCCAGGTTACAAACTACCTGGGCATCGAGTGG
ATGCGTAGGCATCTTGCTCCAGACTACAGAGTACATATCATCTCTTTTAAAGACCCCAATCCAATGCACA
TCGATGCCACCTTCAACATCATTGGACCTGGTCTTGTGCTCTCCAACCCCGACCGTCCTTGTCATCAGAT
TGATCTTTTCAAGAAAGCAGGATGGACCATAGTTACTCCTCCAACACCAGTCATCCCCGATGATCATCCC
CTCTGGATGTCATCCAAATGGCTTTCCATGAACGTCTTAATGCTAGATGAGAAGCGCGTGATGGTAGATG
CCAATGAAGTTCCAATTCAAAAGATGTTTGAGAAGCTGGGTATCAGTACCATTAAGGTTAACATTCGAAA
TGCCAATTCCCTGGGAGGTGGCTTCCACTGCTGGACCTGCGACGTCCGGCGCCGAGGCACCCTTCAGTCC
TACTTTGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

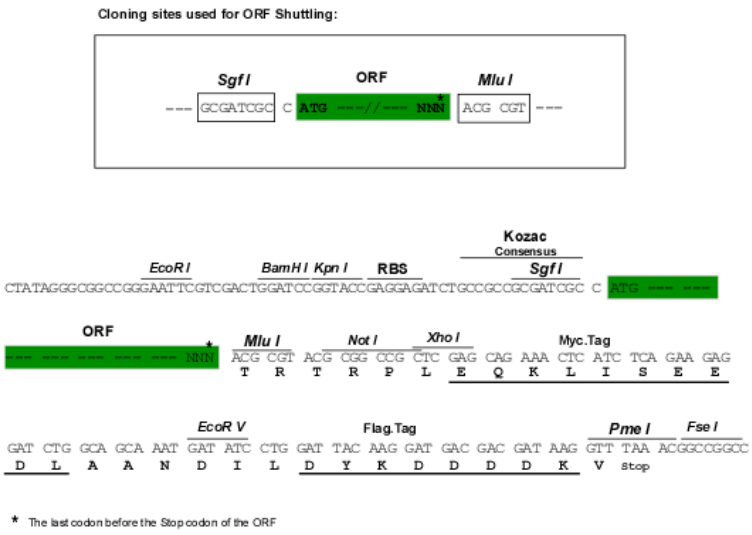
>MR206739 protein sequence
Red=Cloning site Green=Tags(s)

MLRVRCLRGGSRGAEAVHYIGSRLGGSLTGWVQRTFQSTQAATASSRNSCAAEDKATHPLPKDCPVSSYN
EWDPLEEVIVGRAENACVPPFTVEVKANTYEKYWPFYQKNGGLYFPKDHLKKAVAEVEEMCNILSMEGVT
VRRPDPIDWSLKYKTPDFESTGLYSAMPRDILMVVGNEIIEAPMAWRSRFFEYRAYRSIIKDYFHRGAKW
TTAPKPTMADELYDQNYPIHSVEDRHKLAAQGKFVTTEFEPCFDAADFIRAGRDIFAQRSQVTNYLGIEW
MRRHLAPDYRVHIISFKDPNPMHIDATFNIIGPGLVLSNPDRPCHQIDLFKKAGWTIVTPPTPVIPDDHP
LWMSSKWLSMNVLMLDEKRVMVDANEVPIQKMFEKLGISTIKVNIRNANSLGGGFHCWTCDVRRRGTLQS
YFD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_025961

ORF Size: 1272 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.

RefSeq: NM_025961.3

RefSeq Size: 2357 bp

RefSeq ORF: 1272 bp

Locus ID: 67092

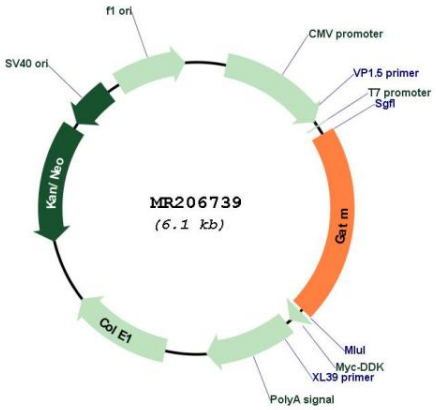
UniProt ID: Q9D964

Cytogenetics: 2 60.63 cM

MW: 48.3 kDa

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]

Product images:



Circular map for MR206739