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Product datasheet for RR207015

Gatm (NM_031031) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gatm (NM_031031) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gatm
Synonyms:	MGC93388
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR207015 representing NM_031031 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCTACGGGTGCGGTGTCTGCGCGGCGGCAGCCGAGGCGCCGAGGCGGTGCACTACATCGGCTCTCGGC TTGGAGGATCCTTAACAGGATGGGTGCAGCGAACTTTCCAGAGCACCCAGGCAGCTACAGCTTCCTCCCA AAATTCCTGTGCAGCTGAAGACAAGGCCACCCACCCCCTGCCCAAGGACTGCCCTGTCTCCTCTTACAAC GAATGGGACCCTTTAGAGGAAGTGATAGTGGGCAGAGCTGAAAATGCCTGTGTCCCACCATTCACAGTGG AGGTGAAGGCCAATACATATGAAAAGTACTGGCCGTTTTACCAGAAAAATGGAGGTCTTTATTTTCCCAA AGATCATCTGAAGAAGGCTGTTGCCGAGGTCGAAGAGATGTGCAATATTTTATCAATGGAAGGCGTGACC GTGAAGCGGCCTGACCCCATTGACTGGTCACTGAAGTATAAGACTCCTGATTTTGAGTCTACAGGTTTAT ACAGCGCGATGCCTCGAGACATCCTGATGGTTGTGGGGAATGAGATTATAGAGGCTCCCATGGCATGGCG CTCACGCTTCTTTGAGTACCGCGCATACAGGTCAATTATCAAAGACTACTTCCACCGTGGTGCCAAGTGG ACAACGGCCCCCAAGCCCACAATGGCTGACGAACTGTATGACCAGGACTATCCCATCCATTCTGTGGAAG ACAGACACAAATTGGCCGCTCAGGGGAAGTTCGTGACAACCGAGTTCGAGCCTTGCTTTGATGCTGCTGA CTTCATTCGAGCTGGAAGAGATATTTTTGCGCAGAGAAGCCAGGTTACAAACTACCTGGGCATCGAGTGG ATGCGTAGGCATCTTGCCCCAGACTACAGAGTGCATATCATCTCGTTTAAAGACCCCAATCCAATGCATA TTGATGCCACCTTCAACATCATTGGACCTGGTCTTGTGCTCTCCAACCCTGACCGTCCATGCCATCAGAT TGATCTTTTCAAGAAAGCAGGATGGACCATAGTTACCCCTCCAACACCTGTGATCCCCGATGATCATCCC CTCTGGATGTCATCCAAGTGGCTCTCCATGAATGTCTTAATGCTAGATGAGAAGCGCGTGATGGTAGACG CCAATGAGGTCCCAATTCAGAAGATGTTTGAGAAGCTGGGTATCAGCACCATTAAGGTTAACATTCGAAA TGCCAATTCCCTGGGAGGAGGCTTCCACTGCTGGACCTGCGACGTCCGCCGCCGAGGCACCCTTCAGTCC TACTTTGAC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

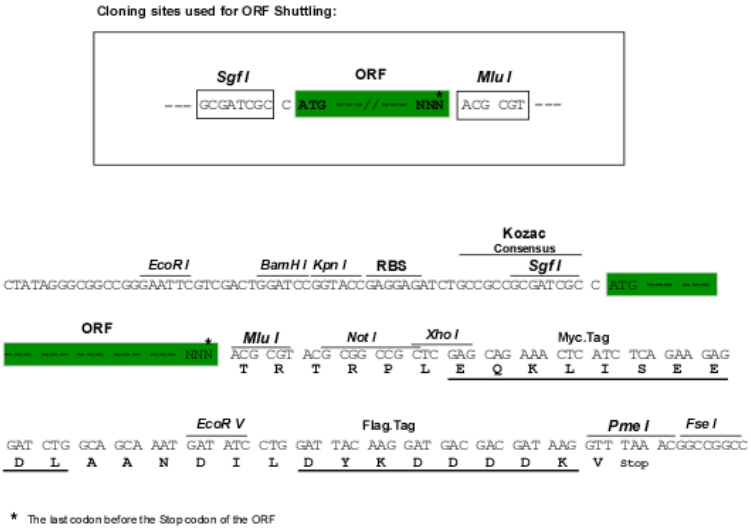
>RR207015 representing NM_031031
Red=Cloning site Green=Tags(s)

MLRVRCLRGGSRGAEAVHYIGSRLGGSLTGWVQRTFQSTQAATASSQNSCAAEDKATHPLPKDCPVSSYN
EWDPLEEVIVGRAENACVPPFTVEVKANTYEKYWPFYQKNGGLYFPKDHLKKAVAEVEEMCNILSMEGVT
VKRPDPIDWSLKYKTPDFESTGLYSAMPRDILMVVGNEIIEAPMAWRSRFFEYRAYRSIIKDYFHRGAKW
TTAPKPTMADELYDQDYPIHSVEDRHKLAAQGKFVTTEFEPCFDAADFIRAGRDIFAQRSQVTNYLGIEW
MRRHLAPDYRVHIISFKDPNPMHIDATFNIIGPGLVLSNPDRPCHQIDLFKKAGWTIVTPPTPVIPDDHP
LWMSSKWLSMNVLMLDEKRVMVDANEVPIQKMFEKLGISTIKVNIRNANSLGGGFHCWTCDVRRRGTLQS
YFD

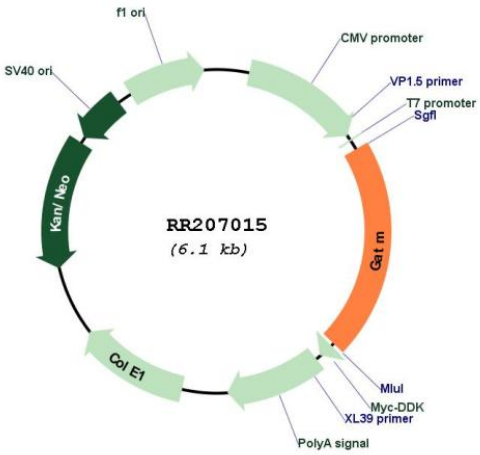
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_031031

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:	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_031031.2, NP_112293.1
RefSeq Size:	2297 bp
RefSeq ORF:	1272 bp
Locus ID:	81660
UniProt ID:	P50442
Cytogenetics:	3q35
MW:	48.2 kDa
Gene Summary:	transamidinase enzyme that catalyzes creatine synthesis [RGD, Feb 2006]