

Product datasheet for **MR202886**

Gamt (NM_010255) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gamt (NM_010255) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gamt
Synonyms:	AA571402; Spintz1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202886 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCTTTCTGCAGCTAGCCCGCTCTTCGCGCCCGGCGAGGACTGCGGCCCGCGTGGCGCGCGGCC
CCGCGGCCTATGACGCGTCTGACACGCACCTGCAAATCCTGGCAAGCCAGTGATGGAGCGTTGGGAGAC
CCCCTATATGCATGCGTAGCGGCGGCTGCTGCCTCCAGAGGGGGCCGGTCTTGAAGTGGCTTCGGT
ATGGCCATTGCAGCCTCCAGGGTGAACAGGCCCCATAGAGGAACACTGGATTATTGAGTGAATGATG
GGGTCTCCAGCGTCTACAAGACTGGGCCCTGCGGCAGCCACATAAGGTTGTCCCTTGAAGGCCCTGTG
GGAGGAGGTGGCACCTACCTGCCTGACGGTCACTTTGATGGGATTCTATATGACACGTACCCGCTGTCT
GAAGAGCCTGGCACACTCACCAGTTCAACTTTATTAAGAATCATGCCTTCCGCTTGCTGAAGACCGGGG
GCGTCCTCACCTACTGCAACCTCACGTCTGGGGGAGCTCATGAAGTCAAATACACAGACATCACCAC
CATGTTTGAGGAGACGCAGGTGCCTGCACTGCAGGAAGCTGGCTTCTGAAAGAAAACATCTGCACAGAG
GTGATGGCACTGGTGCCTCCAGCGACTGCCGCTACTATGCCTTCCCTCAGATGATCACACCCCTGGTCA
CCAAGCAC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202886 protein sequence
Red=Cloning site Green=Tags(s)

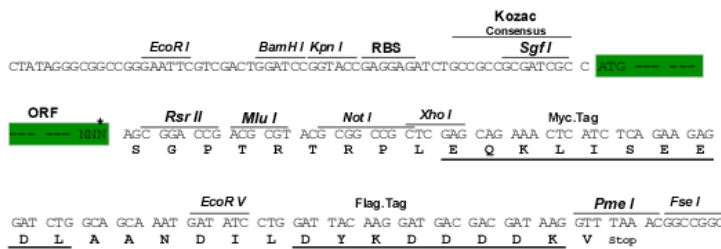
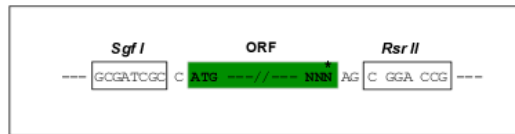
MSSSAASPLFAPGEDCGPAWRAAPAAYDASDTHLQILGKPVMERWETPYMHALAAAAASRGRVLEVGFG
 MAIAASRVQQAPIEEHWIIECNDGVFQRLQDWALRQPHKVVPLKGLWEEVAPTLPDGHFDGILYDTYPLS
 EEAWHTHQFNFIKNHAFRLKKTGGVLTTCNLTSWGELMKSKYTDITTMFEETQVPALQEAGFLKENICTE
 VMALVPPADCRYAFTPQMITPLVTKH

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010255

ORF Size: 711 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_010255.4](#)

RefSeq Size: 960 bp

RefSeq ORF: 711 bp

Locus ID: 14431

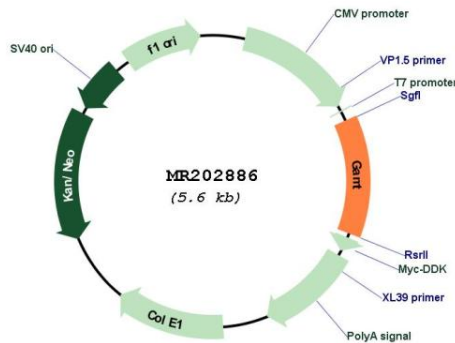
UniProt ID: [O35969](#)

Cytogenetics: 10 39.72 cM

MW: 26.3 kDa

Gene Summary: Converts guanidinoacetate to creatine, using S-adenosylmethionine as the methyl donor. Important in nervous system development.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202886