

Product datasheet for **RR210109**

Gamt (NM_012793) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gamt (NM_012793) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gamt
Synonyms:	GMT
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR210109 representing NM_012793 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAGTTCCTTCTGCAGCCAGCCCGCTTTTCGCGCCTGGCGAGGACTGCGGCCCGCGTGGCGCGCGGCC
CCGCGGCCTATGATACGTCTGACACGCACCTGCAGATCCTGGCAAGCCAGTAATGGAGCGTTGGGAGAC
CCCCTACATGCATTGCTGGCGGCTGCTGCTGCCTCCAGAGGGGGCCGGTCTGGAAGTGGCTTTGGG
ATGGCCATTGCAGCCTCCAGGGTGCAGCAGGCCCCATAAAGGAACACTGGATTATTGAATGCAACGATG
GGTCTTCCAGCGTCTACAAAAGTGGCCCTGAAGCAGCCACATAAGGTTGTTCCCTTGAAGGCCCTGTG
GGAGGAGGTGGCACCTACACTGCCTGATGGTCACTTTGATGGGATTCTATACGACACATATCCACTGTCT
GAAGAGACCTGGCACACTCACCAGTTCACTTTATTAAGACTCATGCTTCCGTTTGCTGAAGCCTGGG
GTATCCTCACTTACTGCAACCTCACGTCTGGGGGAACATGAAGTCCAAGTACACAGACATCACTGC
CATGTTTGAGGAGACTCAGGTGCCTGCACTGCTGGAAGCTGGCTTCCAGAGAGAAAACATCTGTACAGAG
GTGATGGCGCTGGTGCCCCAGCCGACTGCCGCTACTATGCCTCCCTCAGATGATCACACCCTGGTCA
CCAAGCAC

ACGCGTACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR210109 representing NM_012793
 Red=Cloning site Green=Tags(s)

MSSSAASPLFAPGEDCGPAWRAAPAAAYDTS DTHLQILGKPVMERWETPYMHSLAAAAASRGGRVLEVGFG
 MAIAASRVQQAPIKEHWIIECNDGVFQRLQNWALKQPHKVVPLKGLWEEVAPTLPDGHFDGILYDTPLS
 EETWHTHQFNFIKTHAFRLKPGGILTYCNLTSWGLMKSKYTDITAMFEETQVPALLEAGFQRENICTE
 VMALVPPADCRYAFQPMITPLVTKH

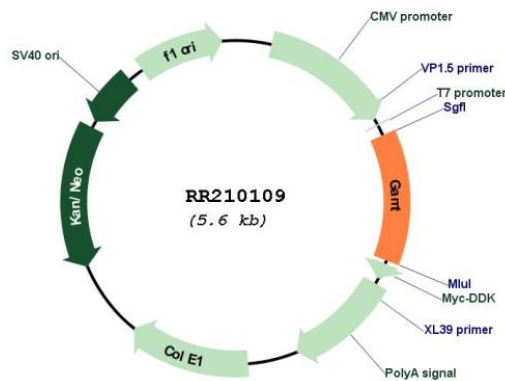
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_012793

ORF Size: 708 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_012793.2 , NP_036925.2
RefSeq Size:	1345 bp
RefSeq ORF:	711 bp
Locus ID:	25257
Cytogenetics:	7q11
MW:	26.4 kDa
Gene Summary:	catalyzes the last step of creatine biosynthesis [RGD, Feb 2006]