

## Product datasheet for **RR204567**

### Gaa (NM\_199118) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gaa (NM_199118) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gaa
Synonyms:	MGC72625
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide  
Sequence:

>RR204567 representing NM\_199118  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAATATACGGAAGCCCCTCTGTTCCAACCTCCGTGGTTGGGCGCTGCACCCTCGTCTCCTTGACTACGG  
 CTGTCATCCTGGGTCACCTCATGCTCCGGGAGCTAATGCTACTCCCCAGGATCTTCATGAGTCCTCCTC  
 GGGACTGTGGAAGACTTACCGACCTCACCATCAGGAAAGTTACGAGCCAGCGCCCTGCACATCCAGGAG  
 CACGCCGAACAGCTAAGAGCAGTACCCACACAGTGTGATGTAACCCCAACAGCCGCTTTGACTGTGCC  
 CCGACAAAGGCATCACCCAGGAGCAGTGCAGGGCCGAGGCTGCTGCTGGGTCCCAGCAGGGCAGGTGCT  
 GAATGGGCCAGTGTGGGCAGCCCTGGTGTCTTCCCTCCAGCTACCCAAGCTACCGGCTAGAGAAC  
 CTGAGCTCTACAGAGTACAGGTACACAGCCACCCTGACCCGGACCAGTCCGACCTTCTTTCAAAGGATG  
 TGCTGACCTTACAGCTGGAGGTGCTGATGGAGACTGACAGCCGCCTCCACTTTATGATCAAAGATCCAC  
 TAGTAAGCGCTACGAAGTCCCCTGAGACCCCGGTGTCTGAGCCAGGCGCCATCCCCACTTTACAGT  
 GTGGAGTTCTCAGAGGAGCCCTTCGGCGTGATCGTTCCGAGGAAGCTTGGTGGCCGAGTGTCTGTAACA  
 CAACCGTGGCCCCCTGTCTTCGCTGACCAGTTCCTGCAGCTGTCCACCTCACTGCCCTCCCAGACAT  
 CGCAGGCTGGGTGAGCACCTCAGTCCACTCATGCTCAGCACCGAATGGACTCGCATCACCTCTGGAAC  
 CGGGATGTGGCACCCCTCGCAAGGTGTCAACCTCTATGGGTACACCCCTTCTACCTGGCACTGGAGGACG  
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 CCTAACTTGGAGGTCAACAGGCGGAATCCTGGATGTTTATGTGTTCTAGGCCAGAGCCCAAGAGTGT  
 GTCCAACAATACCTGGATGTGCTGGGATACCCCTCATGCCTCCGACTGGGCGCTGGGCTTCCACTCT  
 GCCGTGGGCTACTCTCCACCGCCATCGTCCGACAGTGGTGGAGAACATGACCAGGACGCATCCCC  
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 ACCAACCTGAGACCCTCGACTGGTGGCAGGACATGGTGTCTGAGTTCATGCCAGGTGCCCTTCGATG  
 GCATGTGGATCGACATGAACGAACCGTCCAACCTCATCAGAGGCTCTCAGCAGGGCTGCCCTGACAAATGA  
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 CCGGTATGCCGGTCACTGGACAGGGGACGTGTGGAGCTCTGGGAGCATCTTGCCTACTCTGTGCCAGAA  
 ATCCTGCAGTTTAACTGCTGGGCGTGCCCTGGTCCGGGCGAGACATCTGCGGCTTCCAGGGAAACACGA  
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 TTGCGCTATGCCCTTCTACCTACCTGTATACACTTCCACGGCGCCACGTCAAAGGGGACACGGTGG  
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 GCACCTCAGGGCGGGGTACATCATACACTGCAGGGTCCCAGCCTCACAACCACAGAGTCCCGAAAGCAG  
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 AGAGCCTCGGGTCTGGAGCGTGGGCCACACACTGGTCACTTCTCAGCCAAGAATAATACCATTGT  
 AAACAAGTTAGTGCAGTACCAAGGAGGGAGGTGAACTGCAACTGAGGGAGGTGACCATCTTGGGAGTG  
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 AGAGCCTGTCCATCCCTGTCTACTGCTGATGGGAGAGCGGTTTCAAATCGATTGGTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR204567 representing NM\_199118  
 Red=Cloning site Green=Tags(s)

MNIRKPLCSNSVVGACTLVSLTTAVILGHLMLRELMLLPQDLHESSSGLWKTYRPHHQESYEPAPLHIQE  
 HAEQLRAVPTQCDVTPNSRFDCAPDKGITQEQCEARGCCWVPAGQVLNGPVMGQPWCFPPSYPSYRLEN  
 LSSTESGYTATL TRT SPTFFPKDVL TLQLEVL METDSRLHFMIKDPTSKRYEVPLET PRVLSQAPSPLYS  
 VEFSEEPFGVIVRRKLGGRVLLNTTVAPLFFADQFLQLSTSLPSQHIAGLGEHL SPLMLSTEWTRITLWN  
 RDVAPSQGVNLYGSHPFYLALEDGGLAHGVFLLSNAMDVVLQSPAL TWRSTGGILDVYVFLGPEPKSV  
 VQQYLDVVGYPFMPYWG LGFHL CRWGYSS TAIVRQVVENMTRTHFPLDVQWNDLDYMDARRDFTFNQDG  
 FADFPDMVHELHQGRRYMMIVDPAISSSGPAGSYRYPYDEGLRRGVFITNETGQPLIGKVVPGSTAFPDF  
 TNPETLDWWQDMVSEFHAQVPFDGMWIDMNEPSNFIRGSQQGCPDNELENPPYVPGVVGALQAATICAS  
 SHQFLSTHYNLHNL YGL TEA IASSRALVKTRGTRPFVISRSTFAGHGRYAGHWTDVWSSWEHLAYSVPE  
 ILQFNLLGVPLVGADICGFQGNTEELCVRWTLGAFYPFMRNHNDLNSLPQEPYRFSETAQAMRKAF  
 LRYALLPYLYTLFHGAHVKGDTVARPLFLEFPEDPSTWSVDRQLLWGPALLITPVLEPGKTDVTGYFPGK  
 MWYNLQMPVETLGS L P S S P A S S F R S I V H S K G Q W L T L E A P L D T I N V H L R A G Y I I P L Q G P S L T T T E S R K Q  
 P M A L A V A L T E S G E A S G E L F W D D G E S L G V L E R G A Y T L V T F S A K N N T I V N K L V H V T K E G G E L Q L R E V T I L G V  
 T T A P T Q V L S N G I S V S N F T Y S P D D K S L S I P V S L L M G E R F Q I D W S

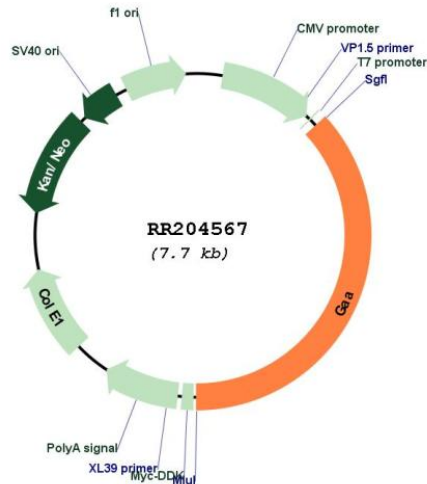
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_199118

**ORF Size:** 2859 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\\_199118.1](#), [NP\\_954549.1](#)

**RefSeq Size:** 3408 bp

**RefSeq ORF:** 2862 bp

**Locus ID:** 367562

**UniProt ID:** [Q6P7A9](#)

**Cytogenetics:** 10q32.3

**MW:** 106.2 kDa

**Gene Summary:** human homolog catalyzes the degradation of glycogen [RGD, Feb 2006]