

Product datasheet for **MC202967**

Gars (NM_180678) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gars (NM_180678) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gars
Synonyms:	Gena201; GENA202; Nmf249; Sgrp23
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC021747 sequence for NM_180678
 GCACCCGCTAGGCGGCGTGTCTATGCCCTGTCTGCCCTCGCTGCTCAGAGCCACCCGCGCCGCGCTG
 CCGCTCCTGTGCGCCGCCCGAGTGGTCGCGAGCGTCCGCGTCTCAGCGGCTCCTCAGCGCTCCCGCGCAGC
 CCGCCGCTCCCGGAGCAGCATGGACAGCGCGGAGGAGCTGTGGCCCACTGCGGCTAGCCGTGCGCCA
 GCAGGGAGACTTTGTACGGAAGTTAAAAGAAGATAAAGCCCCACAAGTGGATGTGGACAGAGCAGTAGCT
 GAGCTCAAGGCCCGAAGAGGGTTCTGGAAGCAAAGGAGCTGGCATTGCAGCCCAAAGATGACATCGTAG
 ATAGAGCAAAAAAGGAAGATACGTTGAAGAGGAGGTTTTTCTACGATCAGGCTTTTGTATTTATGGAGG
 TGTCAAGTGGATTGTACTTCGGGCCGGTAGGATGTGCTTTGAAGAACAATATCATCCAGGCCTGGAGG
 CAGCACTTTATCCAAGAGGAGCAGATCCTGGAGATTGACTGCACCATGCTCACCCCTGAGCCAGTTTTAA
 AGACCTCTGGCCACGTAGACAAAATTTGCTGACTTCATGGTGAAGGACGTGAAGAACGGAGAGTGCTCCG
 AGCAGACCACCTGTTGAAAGCTCATTTACAGAACTGATGTCAGATAAGAAGTGTCTGTGAGAAGAAG
 TCAGAGATGGAAGTGTCTTGGCCAGCTTGATAACTATGGACAACAAGAACTTGCAGGATCTTTTGTGA
 ACTATAATGTAATCTCCCACTGGCAATGACCTGTCCCCTCCGGTACCTTTAACTTAATGTTCCA
 GACCTTCATTGGCCTGGAGAAATATGCCTGGATATCTGAGACCAGAACTGCACAGGGAATTTTCTG
 AATTTCAAACGACTTTTGAATTCACCAAGGGAAATTCCTTTTGTCTGCTGCCAGATTGAAACTCCT
 TCAGAAATGAGATCTCACCTCGGTCTGGACTGATCCGAGTCAGGAGTTTACAATGGCAGAGATTGAGCA
 CTTTGTAGATCCCACTGAGAAAGACCATCCAAGTTCCAAGTGTGGCCGACCTCTGCCTTTATTTGTAC
 TCAGAAAAGCCAGGCTACTGGACAGTCTGCTCGGAAGATGCGTCTGGGAGATGCTGTTGAACAGGGTG
 TGATTAACAACACTCAGTATTAGGCTATTTTATTGGCCGATCTACCTCTACCTCACGAAGGTTGGAATATC
 TCCTGATAAACTCCGCTTCCGGCAGCATATGGAGAATGAGATGGCCATTATGCCTGCGACTGCTGGGAT
 GCCGAGTCCAAAACGTCCTATGGCTGGATTGAGATTGTTGGATGTGCTGACCGTTCTGTACGACCTCT
 CCTGTCTGCTCGAGCCACCAAAGTCCACTAGTAGCTGAGAACTCTGAAAGAACCCAAAACAGTTAA
 CGTTGTACAGTTTGAGCCCAACAAGGGCGCCGTGGCAAGGCGTACAAGAAGGATGCAAAGCTAGTGCTG
 GAGTATCTCAGCGCCTGTGATGAGTGTACATTTCAAGATGGAGCTGCTGCTGAGTGAAGAAAGGGAAAT
 TCACTATTGAAACTGAAGGAAAAACATTTCAAGTTAACGAAAGACATGGTCAAGTGTGAAGAGATTCCAGAA
 AACACTGCATGTGAAGAAGTTGTTCCGAGTGTAAATTGAGCCCTCCTTTGGCTTGGGCAGGATCATGTAT
 ACCATATTGGAACATACATTCCATGTCCGAGAGGGAGATGAACAGAGAACGTTCTTCAGTTTCCCTGCTG
 TGGTTGCTCCATTCAAATGTTCTGTCTTCCACTGAGCCAGAACCAAGAGTTTATGCCATTTGTCAAGGA
 ATTATCCGAAGCTCTGACCAGGAACGGCGTGTCTATAAAGTCGATGACTCCTCTGGGTCTATTGGAAGG
 CGCTATGCAAGAAGTGTGAGATTGGCGTGGCTTTCGGCATCACTATTGACTTTGATACAGTGAACAAGA
 CGCCCCACTGCAACTCTGAGGACCCGAGACTCCATGAGACAGATAAGGGCAGAGGTTCTCTGAGCTGCC
 CAGTGTGTTCCGCGATCTGGCCAACGGCAACATTACCTGGGCTGATGTGGAGGCCAGGTACCCACTCTTT
 GAAGGGCAAGAGACTGGCAAGAAGGAGACAGTAGAGGAATGAGAACAGCTGGCAGCTTATGACCATCGTG
 CTAATAAAATAACTCATATGTCCACTACACAGAGCATTGTGACTGCATCCAGGGACGGTTTTTCTCAGT
 GGCTGCTTGGTTTTACTCCCAATTAAGTTGAAGGAATTCTGAACACATTTATAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_180678

Insert Size: 2190 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [BC021747](#), [AAH21747](#)

RefSeq Size: 2380 bp

RefSeq ORF: 2190 bp

Locus ID: 353172

UniProt ID: [Q9CZD3](#)

Cytogenetics: 6 27.29 cM

Gene Summary: Catalyzes the ATP-dependent ligation of glycine to the 3'-end of its cognate tRNA, via the formation of an aminoacyl-adenylate intermediate (Gly-AMP). Also produces diadenosine tetraphosphate (Ap4A), a universal pleiotropic signaling molecule needed for cell regulation pathways, by direct condensation of 2 ATPs. Thereby, may play a special role in Ap4A homeostasis.[UniProtKB/Swiss-Prot Function]