

## Product datasheet for **MR210334L3V**

### Gars (NM\_180678) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Gars (NM_180678) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Gars
Synonyms:	Gena201; GENA202; Nmf249; Sgrp23
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_180678
ORF Size:	2190 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR210334).
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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_180678.3</a>
RefSeq Size:	2390 bp
RefSeq ORF:	2190 bp
Locus ID:	353172
UniProt ID:	<a href="#">Q9CZD3</a>
Cytogenetics:	6 27.29 cM



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**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 (Ap<sub>4</sub>A), a universal pleiotropic signaling molecule needed for cell regulation pathways, by direct condensation of 2 ATPs. Thereby, may play a special role in Ap<sub>4</sub>A homeostasis.[UniProtKB/Swiss-Prot Function]