

Product datasheet for RC202852L2V

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

GARS (GARS1) (NM_002047) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type: Lentiviral Particles

Product Name: GARS (GARS1) (NM_002047) Human Tagged ORF Clone Lentiviral Particle

Symbol: GARS1

Synonyms: CMT2D; DSMAV; GARS; GlyRS; HMN5; HMN5A; SMAD1; SMAJI

Mammalian Cell

Selection:

None

Vector: pLenti-C-mGFP (PS100071)

Tag: mGFP

ACCN: NM_002047 **ORF Size:** 2217 bp

ORF Nucleotide

- 1

Sequence:

The ORF insert of this clone is exactly the same as (RC202852).

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.

RefSeg: NM 002047.2

 RefSeq Size:
 2759 bp

 RefSeq ORF:
 2220 bp

 Locus ID:
 2617

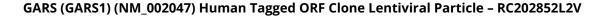
 UniProt ID:
 P41250

 Cytogenetics:
 7p14.3

Domains: WHEP-TRS, tRNA-synt_2b, HGTP_anticodon

Protein Pathways: Aminoacyl-tRNA biosynthesis





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MW: 83.1 kDa

Gene Summary: This gene encodes glycyl-tRNA synthetase, one of the aminoacyl-tRNA synthetases that

charge tRNAs with their cognate amino acids. The encoded enzyme is an (alpha)2 dimer which belongs to the class II family of tRNA synthetases. It has been shown to be a target of autoantibodies in the human autoimmune diseases, polymyositis or dermatomyositis. Two transcript variants encoding different isoforms have been found for this gene. [provided by

RefSeq, Oct 2015]