

## Product datasheet for **RC210447L4V**

### GART (NM\_000819) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	GART (NM_000819) Human Tagged ORF Clone Lentiviral Particle
Symbol:	GART
Synonyms:	AIRS; GARS; GARTF; PAIS; PGFT; PRGS
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_000819
ORF Size:	3030 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC210447).
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_000819.4</a>
RefSeq Size:	3376 bp
RefSeq ORF:	3033 bp
Locus ID:	2618
UniProt ID:	<a href="#">P22102</a>
Cytogenetics:	21q22.11
Domains:	GARS, AIRS, formyl_transf
Protein Pathways:	Metabolic pathways, One carbon pool by folate, Purine metabolism



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**MW:** 107.8 kDa

**Gene Summary:** The protein encoded by this gene is a trifunctional polypeptide. It has phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase activity which is required for de novo purine biosynthesis. This enzyme is highly conserved in vertebrates. Alternative splicing of this gene results in two transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]