

## Product datasheet for **RC226553L3V**

### GART (NM\_001136005) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | GART (NM_001136005) Human Tagged ORF Clone Lentiviral Particle   |
| Symbol:                   | GART   |
| Synonyms:                 | AIRS; GARS; GARTF; PAIS; PGFT; PRGS  |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-Myc-DDK-P2A-Puro (PS100092)   |
| Tag:                      | Myc-DDK  |
| ACCN:                     | NM_001136005   |
| ORF Size:                 | 3030 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC226553).   |
| 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_001136005.1</a> , <a href="#">NP_001129477.1</a>  |
| RefSeq Size:              | 3552 bp  |
| RefSeq ORF:               | 3033 bp  |
| Locus ID:                 | 2618   |
| UniProt ID:               | <a href="#">P22102</a>   |
| Cytogenetics:             | 21q22.11   |
| Protein Pathways:         | Metabolic pathways, One carbon pool by folate, Purine metabolism   |
| MW:                       | 107.8 kDa  |



[View online »](#)

**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]