

## Product datasheet for **RC231330L3V**

### GCLC (NM\_001197115) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | GCLC (NM_001197115) Human Tagged ORF Clone Lentiviral Particle   |
| Symbol:                   | GCLC   |
| Synonyms:                 | GCL; GCS; GLCL; GLCLC  |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-Myc-DDK-P2A-Puro (PS100092)   |
| Tag:                      | Myc-DDK  |
| ACCN:                     | NM_001197115   |
| ORF Size:                 | 1797 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC231330).   |
| 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_001197115.1</a>   |
| RefSeq ORF:               | 1800 bp  |
| Locus ID:                 | 2729   |
| UniProt ID:               | <a href="#">P48506</a>   |
| Cytogenetics:             | 6p12.1   |
| Protein Families:         | Druggable Genome   |
| Protein Pathways:         | Glutathione metabolism, Metabolic pathways   |
| MW:                       | 69.1 kDa   |



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**Gene Summary:**

Glutamate-cysteine ligase, also known as gamma-glutamylcysteine synthetase is the first rate-limiting enzyme of glutathione synthesis. The enzyme consists of two subunits, a heavy catalytic subunit and a light regulatory subunit. This locus encodes the catalytic subunit, while the regulatory subunit is derived from a different gene located on chromosome 1p22-p21. Mutations at this locus have been associated with hemolytic anemia due to deficiency of gamma-glutamylcysteine synthetase and susceptibility to myocardial infarction.[provided by RefSeq, Oct 2010]