

OriGene Technologies, Inc.

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Product datasheet for RC231233L4V

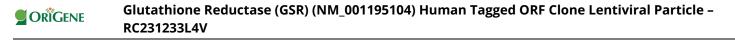
Glutathione Reductase (GSR) (NM_001195104) Human Tagged ORF Clone Lentiviral Particle

Product data:

| Product Type: | Lentiviral Particles |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name: | Glutathione Reductase (GSR) (NM_001195104) Human Tagged ORF Clone Lentiviral Particle |
| Symbol: | Glutathione Reductase |
| Synonyms: | GR; GSRD; HEL-75; HEL-S-122m |
| Mammalian Cell Selection: | Puromycin |
| Vector: | pLenti-C-mGFP-P2A-Puro (PS100093) |
| Tag: | mGFP |
| ACCN: | NM_001195104 |
| ORF Size: | 1320 bp |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(RC231233). |
| 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. <u>More info</u> |
| 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: | <u>NM 001195104.1</u> |
| RefSeq ORF: | 1323 bp |
| Locus ID: | 2936 |
| UniProt ID: | <u>P00390</u> |
| Cytogenetics: | 8p12 |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Glutathione metabolism |
| MW: | 47.7 kDa |



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Gene Summary:This gene encodes a member of the class-I pyridine nucleotide-disulfide oxidoreductase
family. This enzyme is a homodimeric flavoprotein. It is a central enzyme of cellular
antioxidant defense, and reduces oxidized glutathione disulfide (GSSG) to the sulfhydryl form
GSH, which is an important cellular antioxidant. Rare mutations in this gene result in
hereditary glutathione reductase deficiency. Multiple alternatively spliced transcript variants
encoding different isoforms have been found. [provided by RefSeq, Aug 2010]

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