

## Product datasheet for **RC209652L4V**

### Glutathione Reductase (GSR) (NM\_000637) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Glutathione Reductase (GSR) (NM_000637) 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_000637
ORF Size:	1566 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC209652).
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_000637.2</a>
RefSeq Size:	3174 bp
RefSeq ORF:	1569 bp
Locus ID:	2936
UniProt ID:	<a href="#">P00390</a>
Cytogenetics:	8p12
Domains:	pyr_redox, pyr_redox_dim
Protein Families:	Druggable Genome



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**Protein Pathways:** Glutathione metabolism

**MW:** 56.3 kDa

**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]