

## Product datasheet for **RC203174L2V**

### Glutathione Synthetase (GSS) (NM\_000178) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Glutathione Synthetase (GSS) (NM_000178) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Glutathione Synthetase
Synonyms:	GSHS; HEL-S-64p; HEL-S-88n
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_000178
ORF Size:	1422 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC203174).
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_000178.2</a>
RefSeq Size:	1918 bp
RefSeq ORF:	1425 bp
Locus ID:	2937
UniProt ID:	<a href="#">P48637</a>
Cytogenetics:	20q11.22
Domains:	GSH_synthase, GSH_synth_ATP
Protein Families:	Druggable Genome



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**Protein Pathways:** Glutathione metabolism, Metabolic pathways

**MW:** 52.4 kDa

**Gene Summary:** Glutathione is important for a variety of biological functions, including protection of cells from oxidative damage by free radicals, detoxification of xenobiotics, and membrane transport. The protein encoded by this gene functions as a homodimer to catalyze the second step of glutathione biosynthesis, which is the ATP-dependent conversion of gamma-L-glutamyl-L-cysteine to glutathione. Defects in this gene are a cause of glutathione synthetase deficiency. [provided by RefSeq, Jul 2008]