**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for RC216148L3V

## Microsomal Glutathione S transferase 1 (MGST1) (NM_145791) Human Tagged ORF Clone Lentiviral Particle

### Product data:

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|---|---|
| **Product Type:** | Lentiviral Particles |
| **Product Name:** | Microsomal Glutathione S transferase 1 (MGST1) (NM_145791) Human Tagged ORF Clone Lentiviral Particle |
| **Symbol:** | Microsomal Glutathione S transferase 1 |
| **Synonyms:** | GST12; MGST; MGST-I |
| **Mammalian Cell Selection:** | Puromycin |
| **Vector:** | pLenti-C-Myc-DDK-P2A-Puro (PS100092) |
| **Tag:** | Myc-DDK |
| **ACCN:** | NM_145791 |
| **ORF Size:** | 465 bp |
| **ORF Nucleotide Sequence:** | The ORF insert of this clone is exactly the same as(RC216148). |
| **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. More info |
| **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:** | NM_145791.1 |
| **RefSeq Size:** | 987 bp |
| **RefSeq ORF:** | 468 bp |
| **Locus ID:** | 4257 |
| **UniProt ID:** | P10620 |
| **Cytogenetics:** | 12p12.3 |
| **Protein Families:** | Druggable Genome, Transmembrane |

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|---|---|
| **Protein Pathways:** | Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450 |
| **MW:** | 17.4 kDa |
| **Gene Summary:** | The MAPEG (Membrane Associated Proteins in Eicosanoid and Glutathione metabolism) family consists of six human proteins, two of which are involved in the production of leukotrienes and prostaglandin E, important mediators of inflammation. Other family members, demonstrating glutathione S-transferase and peroxidase activities, are involved in cellular defense against toxic, carcinogenic, and pharmacologically active electrophilic compounds. This gene encodes a protein that catalyzes the conjugation of glutathione to electrophiles and the reduction of lipid hydroperoxides. This protein is localized to the endoplasmic reticulum and outer mitochondrial membrane where it is thought to protect these membranes from oxidative stress. Several transcript variants, some non-protein coding and some protein coding, have been found for this gene. [provided by RefSeq, May 2012] |