

## **Product datasheet for RC212650L3**

## GLS2 (NM\_013267) Human Tagged Lenti ORF Clone

## **Product data:**

**Product Type:** Expression Plasmids

Product Name: GLS2 (NM\_013267) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: GLS2

Synonyms: GA; GLS; hLGA; LGA

Mammalian Cell Puromycin

Selection:

**Vector:** pLenti-C-Myc-DDK-P2A-Puro (PS100092)

Sgfl-Mlul

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC212650).

Sequence:

Restriction Sites:

Cloning Scheme:





<sup>\*</sup> The last codon before the Stop codon of the ORF.

**ACCN:** NM\_013267

ORF Size: 1806 bp



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**OTI Disclaimer:** 

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.

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.

Components:

The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:** 

- 1. Centrifuge at 5,000xg for 5min.
- 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
- 3. Close the tube and incubate for 10 minutes at room temperature.
- 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
- 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** <u>NM 013267.2</u>

 RefSeq Size:
 2648 bp

 RefSeq ORF:
 1809 bp

 Locus ID:
 27165

 UniProt ID:
 Q9UI32

 Cytogenetics:
 12q13.3

**Domains:** ANK, Glutaminase

**Protein Pathways:** Alanine, aspartate and glutamate metabolism, Arginine and proline metabolism, D-Glutamine

and D-glutamate metabolism, Metabolic pathways, Nitrogen metabolism

**MW:** 66.8 kDa

**Gene Summary:** The protein encoded by this gene is a mitochondrial phosphate-activated glutaminase that

catalyzes the hydrolysis of glutamine to stoichiometric amounts of glutamate and ammonia. Originally thought to be liver-specific, this protein has been found in other tissues as well. Alternative splicing results in multiple transcript variants that encode different isoforms.

[provided by RefSeq, Jul 2013]