

# **Product datasheet for RC223640L3**

## techs EU: ii

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OriGene Technologies, Inc.

### **GGT1** (NM\_013430) Human Tagged Lenti ORF Clone

### **Product data:**

**Product Type:** Expression Plasmids

Product Name: GGT1 (NM 013430) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: GGT1

Synonyms: CD224; D22S672; D22S732; GGT; GGT 1; GGTD; GTG

Mammalian Cell Puromycin

Selection:

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

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

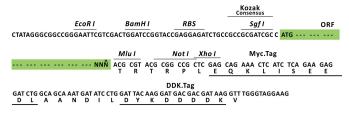
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC223640).

Sequence:

າce: tion Sites: Sgfl-Mlul

Restriction Sites: Cloning Scheme:





st The last codon before the Stop codon of the ORF.

**ACCN:** NM\_013430

ORF Size: 1707 bp



#### GGT1 (NM\_013430) Human Tagged Lenti ORF Clone - RC223640L3

**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.

**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 013430.2</u>, <u>NP 038347.2</u>

 RefSeq Size:
 2381 bp

 RefSeq ORF:
 1710 bp

 Locus ID:
 2678

 UniProt ID:
 P19440

Cytogenetics:

Domains: G\_glu\_transpept

**Protein Families:** Protease, Transmembrane

22q11.23

**Protein Pathways:** Arachidonic acid metabolism, Cyanoamino acid metabolism, Glutathione metabolism,

Metabolic pathways, Selenoamino acid metabolism, Taurine and hypotaurine metabolism

**MW:** 61.4 kDa

**Gene Summary:** The enzyme encoded by this gene is a type I gamma-glutamyltransferase that catalyzes the

transfer of the glutamyl moiety of glutathione to a variety of amino acids and dipeptide acceptors. The enzyme is composed of a heavy chain and a light chain, which are derived from a single precursor protein. It is expressed in tissues involved in absorption and secretion and may contribute to the etiology of diabetes and other metabolic disorders. Multiple alternatively spliced variants have been identified. There are a number of related genes present on chromosomes 20 and 22, and putative pseudogenes for this gene on

chromosomes 2, 13, and 22. [provided by RefSeq, Jan 2014]