

## Product datasheet for RC231191L3

## OriGene Technologies, Inc.

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## Cystathionase (CTH) (NM\_001190463) Human Tagged Lenti ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** Cystathionase (CTH) (NM\_001190463) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Cystathionase

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(RC231191).

Sequence:

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





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

**ACCN:** NM\_001190463

ORF Size: 1119 bp



## Cystathionase (CTH) (NM\_001190463) Human Tagged Lenti ORF Clone - RC231191L3

**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 001190463.1, NP 001177392.1</u>

 RefSeq ORF:
 1122 bp

 Locus ID:
 1491

 UniProt ID:
 P32929

 Cytogenetics:
 1p31.1

**Protein Pathways:** Cysteine and methionine metabolism, Glycine, serine and threonine metabolism, Metabolic

pathways, Nitrogen metabolism, Selenoamino acid metabolism

**MW:** 41.7 kDa

**Gene Summary:** This gene encodes a cytoplasmic enzyme in the trans-sulfuration pathway that converts

cystathione derived from methionine into cysteine. Glutathione synthesis in the liver is dependent upon the availability of cysteine. Mutations in this gene cause cystathioninuria. Alternative splicing of this gene results in three transcript variants encoding different

isoforms. [provided by RefSeq, Jun 2010]