

Product datasheet for RC206067L2

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

Cysteine Dioxygenase Type 1 (CDO1) (NM_001801) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Cysteine Dioxygenase Type 1 (CDO1) (NM_001801) Human Tagged Lenti ORF Clone

Tag: mGFP

Symbol: Cysteine Dioxygenase Type 1

Synonyms: CDO-l Mammalian Cell None

Selection:

Vector:pLenti-C-mGFP (PS100071)E. coli Selection:Chloramphenicol (34 ug/mL)

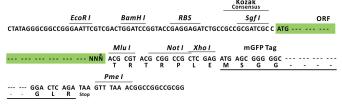
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC206067).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_001801

ORF Size: 600 bp



Cysteine Dioxygenase Type 1 (CDO1) (NM_001801) Human Tagged Lenti ORF Clone - RC206067L2

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 001801.2</u>

RefSeq Size: 1627 bp RefSeq ORF: 603 bp

Locus ID: 1036

UniProt ID: Q16878
Cytogenetics: 5q22.3

Protein Pathways: Cysteine and methionine metabolism, Metabolic pathways, Taurine and hypotaurine

metabolism

MW: 23 kDa

Gene Summary: Initiates several important metabolic pathways related to pyruvate and several sulfurate

compounds including sulfate, hypotaurine and taurine. Critical regulator of cellular cysteine concentrations. Has an important role in maintaining the hepatic concentation of intracellular

free cysteine within a proper narrow range.[UniProtKB/Swiss-Prot Function]