

Product datasheet for **RG206067**

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

Product data:

Product Type: Expression Plasmids
Product Name: Cysteine Dioxygenase Type 1 (CDO1) (NM_001801) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Cysteine Dioxygenase Type 1
Synonyms: CDO-I
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG206067 representing NM_001801
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAACAGACCGAAGTCTGAAGCCACGGACCCTGGCTGATCTGATCCGCATCTGCACCAGCTCTTTG
 CCGGCGATGAGGTCAATGTAGAGGAGGTGCAGGCCATCATGGAAGCCTACGAGAGCGACCCACCGAGTG
 GGCAATGTACCCAAGTTCGACCAGTACAGGTATACCCGAAATCTTGTGGATCAAGGAAATGGAAAATTT
 AATCTGATGATTCTCTGTTGGGGTGAAGGACATGGCAGCAGTATTCATGATCATAACCACTCCCAGTCT
 TTCTGAAGATGCTACAGGAAATCTAAAGGAGACATTATTTGCCCTGGCCTGACAAAAATCCAATGAGAT
 GGTCAAGAAGTCTGAAAGAGTCTTGAGGGAAAACCAAGTGTGCCTACATCAATGATTCCGTTGGCTTACAT
 CGAGTAGAGAACATCAGCCATACGGAACCTGCTGTGAGCCTTCACTTGTACAGTCCACCTTTTGATACAT
 GCCATGCCTTTGATCAAAGAACAGGACATAAAAACAAAGTCACAATGACATTCCATAGTAAATTTGGAAT
 CAGAACTCCAATGCAACTTCGGGCTCGCTGGAGAACAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG206067 representing NM_001801
 Red=Cloning site Green=Tags(s)

MEQTEVLKPRTLADLIRILHQLFAGDEVNVEEVQAIMEAYESDPTEWAMYAKFDQYRYTRNLVDQNGKF
 NLMILCWGEGHGSSIHDHTNSHCFKMLQGNLKETLFAWPKKSNEMVKKSERVLRENQCAVINDSVGLH
 RVENISHTEPAVSLHLYSPPFDTCHAFDQRTGHKNKVTMTFHSKFGIRTPNATSGSLENN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_001801

ORF Size: 600 bp

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: [NM_001801.2](#), [NP_001792.2](#)

RefSeq Size: 1627 bp

RefSeq ORF: 603 bp

Locus ID: 1036

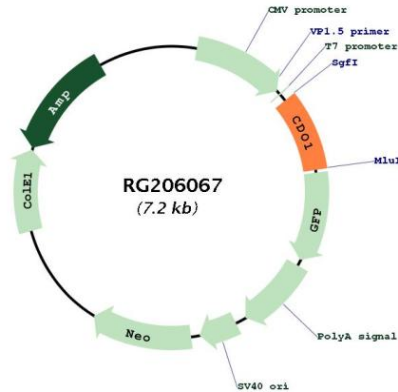
UniProt ID: [Q16878](#)

Cytogenetics: 5q22.3

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

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

Product images:



Circular map for RG206067