

Product datasheet for RC214662L2

OriGene Technologies, Inc.

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Ornithine Carbamoyltransferase (OTC) (NM_000531) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Ornithine Carbamoyltransferase (OTC) (NM_000531) Human Tagged Lenti ORF Clone

Tag: mGFP

Symbol: Ornithine Carbamoyltransferase

Synonyms: OCTD; OTCD

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(RC214662).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





 $[\]ensuremath{^*}$ The last codon before the Stop codon of the ORF.

ACCN: NM_000531

ORF Size: 1062 bp





Ornithine Carbamoyltransferase (OTC) (NM_000531) Human Tagged Lenti ORF Clone – RC214662L2

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 000531.3</u>

RefSeq Size: 1927 bp
RefSeq ORF: 1065 bp
Locus ID: 5009

UniProt ID: P00480

Cytogenetics: Xp11.4

Domains: OTCace, OTCace_N

Protein Families: Druggable Genome

Protein Pathways: Arginine and proline metabolism, Metabolic pathways

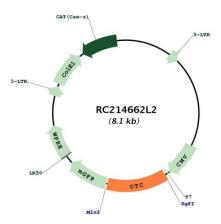
MW: 39.94 kDa

Gene Summary: This nuclear gene encodes a mitochondrial matrix enzyme. Missense, nonsense, and

frameshift mutations in this enzyme lead to ornithine transcarbamylase deficiency, which causes hyperammonemia. Since the gene for this enzyme maps close to that for Duchenne muscular dystrophy, it may play a role in that disease also. [provided by RefSeq, Jul 2008]



Product images:



Circular map for RC214662L2