

Product datasheet for RC212196L3

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CRAT (NM_000755) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: CRAT (NM 000755) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: CRAT

Synonyms: CAT; CAT1; NBIA8

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(RC212196).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_000755

ORF Size: 1878 bp



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CRAT (NM_000755) Human Tagged Lenti ORF Clone - RC212196L3

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 000755.2</u>

RefSeq Size: 2804 bp
RefSeq ORF: 1881 bp
Locus ID: 1384

Cytogenetics: 9q34.11

Domains: Carn_acyltransf

Protein Families: Druggable Genome

MW: 70.87 kDa

Gene Summary: This gene encodes carnitine O-acetyltransferase, a member of the carnitine acyltransferase

family and a key metabolic pathway enzyme which plays an important role in energy

homeostasis and fat metabolism. This enzyme catalyzes the reversible transfer of acyl groups from an acyl-CoA thioester to carnitine and regulates the ratio of acyl-CoA/CoA. It is found in both the mitochondria and the peroxisome. Alternative splicing results in transcript variants

encoding different isoforms that may localize to different subcellular compartments.

[provided by RefSeq, Oct 2016]