

Product datasheet for RC201974L3

OriGene Technologies, Inc.

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Carbonic Anhydrase II (CA2) (NM_000067) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Carbonic Anhydrase II (CA2) (NM 000067) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Carbonic Anhydrase II

Synonyms: CA-II; CAC; CAII; Car2; HEL-76; HEL-S-282

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide

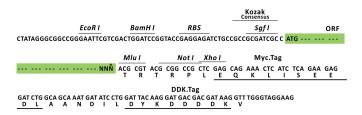
The ORF insert of this clone is exactly the same as(RC201974).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_000067

ORF Size: 780 bp





OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at customercom or by calling 301.340.3188 option 3 for pricing and delivery.

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. <u>More info</u>

OTI Annotation: Th

This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:

Cytogenetics:

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 000067.1</u>

 RefSeq Size:
 1666 bp

 RefSeq ORF:
 783 bp

 Locus ID:
 760

 UniProt ID:
 P00918

Domains:carb_anhydraseProtein Families:Druggable GenomeProtein Pathways:Nitrogen metabolism

8q21.2

MW: 29.2 kDa

Gene Summary: The protein encoded by this gene is one of several isozymes of carbonic anhydrase, which

catalyzes reversible hydration of carbon dioxide. Defects in this enzyme are associated with osteopetrosis and renal tubular acidosis. Two transcript variants encoding different isoforms

have been found for this gene. [provided by RefSeq, Jun 2014]