

Product datasheet for RC221895L2

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PCB (PC) (NM_000920) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: PCB (PC) (NM_000920) Human Tagged Lenti ORF Clone

Tag:mGFPSymbol:PCBSynonyms:PCBMammalian CellNone

Selection:

Vector: pLenti-C-mGFP (PS100071)

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

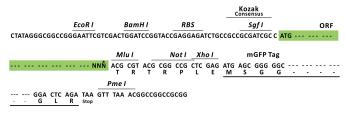
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC221895).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_000920

ORF Size: 3534 bp





PCB (PC) (NM_000920) Human Tagged Lenti ORF Clone - RC221895L2

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 000920.2</u>

RefSeq Size:4111 bpRefSeq ORF:3537 bpLocus ID:5091

UniProt ID: P11498
Cytogenetics: 11q13.2

Protein Families: Druggable Genome

Protein Pathways: Citrate cycle (TCA cycle), Metabolic pathways, Pyruvate metabolism

MW: 129.63 kDa

Gene Summary: This gene encodes pyruvate carboxylase, which requires biotin and ATP to catalyse the

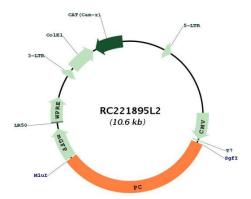
carboxylation of pyruvate to oxaloacetate. The active enzyme is a homotetramer arranged in a tetrahedron which is located exclusively in the mitochondrial matrix. Pyruvate carboxylase

is involved in gluconeogenesis, lipogenesis, insulin secretion and synthesis of the

neurotransmitter glutamate. Mutations in this gene have been associated with pyruvate carboxylase deficiency. Alternatively spliced transcript variants with different 5' UTRs, but encoding the same protein, have been found for this gene. [provided by RefSeq, Jul 2008]



Product images:



Circular map for RC221895L2