

Product datasheet for RC200354L3

OriGene Technologies, Inc.

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PCK2 (NM_004563) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: PCK2 (NM_004563) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: PCK2

Synonyms: PEPCK; PEPCK-M; PEPCK2

Mammalian Cell Puromycin

Selection:

Vector:

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

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

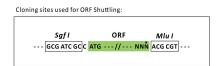
The ORF insert of this clone is exactly the same as(RC200354). **ORF Nucleotide**

Sequence:

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_004563

ORF Size: 1920 bp



PCK2 (NM_004563) Human Tagged Lenti ORF Clone - RC200354L3

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 004563.2</u>

 RefSeq Size:
 2380 bp

 RefSeq ORF:
 1923 bp

 Locus ID:
 5106

 UniProt ID:
 Q16822

Cytogenetics: 14q11.2-q12

Domains: PEPCK

Protein Families: ES Cell Differentiation/IPS

Protein Pathways: Adipocytokine signaling pathway, Citrate cycle (TCA cycle), Glycolysis / Gluconeogenesis,

Insulin signaling pathway, Metabolic pathways, PPAR signaling pathway, Pyruvate metabolism

MW: 70.7 kDa

Gene Summary: This gene encodes a mitochondrial enzyme that catalyzes the conversion of oxaloacetate to

phosphoenolpyruvate in the presence of guanosine triphosphate (GTP). A cytosolic form of this protein is encoded by a different gene and is the key enzyme of gluconeogenesis in the liver. Alternatively spliced transcript variants have been described. [provided by RefSeq, Apr

2014]