

Product datasheet for RC224599L1

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OriGene Technologies, Inc.

PFKFB1 (NM_002625) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: PFKFB1 (NM_002625) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: PFKFB1

Synonyms: F6PK; HL2K; PFRX

Mammalian Cell None

Selection:

Vector:pLenti-C-Myc-DDK (PS100064)E. coli Selection:Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC224599).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_002625

ORF Size: 1413 bp





PFKFB1 (NM_002625) Human Tagged Lenti ORF Clone - RC224599L1

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 002625.1</u>

 RefSeq Size:
 1756 bp

 RefSeq ORF:
 1416 bp

 Locus ID:
 5207

UniProt ID: P16118

Cytogenetics: Xp11.21

Protein Families: Druggable Genome

Protein Pathways: Fructose and mannose metabolism

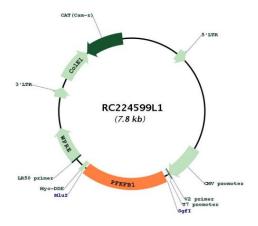
MW: 54.7 kDa

Gene Summary: This gene encodes a member of the family of bifunctional 6-phosphofructo-2-kinase:fructose-

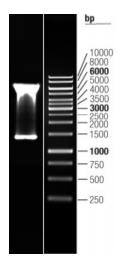
2,6-biphosphatase enzymes. The enzyme forms a homodimer that catalyzes both the synthesis and degradation of fructose-2,6-biphosphate using independent catalytic domains. Fructose-2,6-biphosphate is an activator of the glycolysis pathway and an inhibitor of the gluconeogenesis pathway. Consequently, regulating fructose-2,6-biphosphate levels through the activity of this enzyme is thought to regulate glucose homeostasis. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Nov 2012]



Product images:



Circular map for RC224599L1



Double digestion of RC224599L1 using Sgfl and Mlul