

Product datasheet for RC202888L3

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

CN: techsupport@origene.cn

OriGene Technologies, Inc.

PFKL (NM_001002021) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: PFKL (NM 001002021) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: PFKL

Synonyms: ATP-PFK; PFK-B; PFK-L

Mammalian Cell Puromycin

Selection:

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

Sgfl-Mlul

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

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC202888).

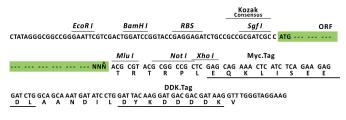
Sequence:

Restriction Sites: Cloning Scheme:

Cloning sites used for ORF Shuttling:

Sgf I ORF Mlu I

--- GCG ATC GC ATG ---//--- NNN ACG CGT ---



 $[\]ensuremath{^*}$ The last codon before the Stop codon of the ORF.

ACCN: NM_001002021

ORF Size: 2481 bp





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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.

Druggable Genome

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 001002021.1</u>

 RefSeq Size:
 3412 bp

 RefSeq ORF:
 2493 bp

 Locus ID:
 5211

 UniProt ID:
 P17858

Cytogenetics: 21q22.3

Protein Families:

Protein Pathways: Fructose and mannose metabolism, Galactose metabolism, Glycolysis / Gluconeogenesis,

Metabolic pathways, Pentose phosphate pathway

MW: 90.2 kDa

Gene Summary: This gene encodes the liver (L) subunit of an enzyme that catalyzes the conversion of D-

fructose 6-phosphate to D-fructose 1,6-bisphosphate, which is a key step in glucose metabolism (glycolysis). This enzyme is a tetramer that may be composed of different

subunits encoded by distinct genes in different tissues. Alternative splicing results in multiple

transcript variants. [provided by RefSeq, Mar 2014]