

Product datasheet for RC219382L3

OriGene Technologies, Inc.

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PKM2 (PKM) (NM_182470) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: PKM2 (PKM) (NM_182470) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: PKM2

Synonyms: CTHBP; HEL-S-30; OIP3; p58; PK3; PKM2; TCB; THBP1

Mammalian Cell Puromycin

Selection:

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

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

ORF Nucleotide The ORF insert of this clo

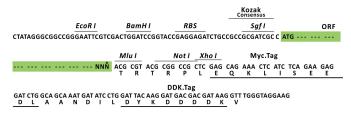
Sequence:

The ORF insert of this clone is exactly the same as(RC219382).

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_182470

ORF Size: 1593 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.

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 182470.1</u>

 RefSeq Size:
 2674 bp

 RefSeq ORF:
 1596 bp

 Locus ID:
 5315

 UniProt ID:
 P14618

Cytogenetics: 15q23

Protein Families: Druggable Genome

Protein Pathways: Glycolysis / Gluconeogenesis, Metabolic pathways, Purine metabolism, Pyruvate metabolism,

Type II diabetes mellitus

MW: 57.9 kDa

Gene Summary: This gene encodes a protein involved in glycolysis. The encoded protein is a pyruvate kinase

that catalyzes the transfer of a phosphoryl group from phosphoenolpyruvate to ADP, generating ATP and pyruvate. This protein has been shown to interact with thyroid hormone and may mediate cellular metabolic effects induced by thyroid hormones. This protein has been found to bind Opa protein, a bacterial outer membrane protein involved in gonococcal adherence to and invasion of human cells, suggesting a role of this protein in bacterial

pathogenesis. Several alternatively spliced transcript variants encoding a few distinct isoforms

have been reported. [provided by RefSeq, May 2011]