

Product datasheet for RC217690L3

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OriGene Technologies, Inc.

PTPRN2 (NM_002847) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: PTPRN2 (NM_002847) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: PTPRN2

Synonyms: IA-2beta; IAR; ICAAR; PTPRP; R-PTP-N2

Mammalian Cell Puromycin

Selection:

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

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

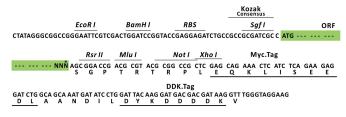
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC217690).

Sequence:

Restriction Sites: Sgfl-Rsrll

Cloning Scheme:





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

ACCN: NM_002847

ORF Size: 3045 bp





PTPRN2 (NM_002847) Human Tagged Lenti ORF Clone - RC217690L3

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 002847.4</u>, <u>NP 002838.1</u>

 RefSeq Size:
 4842 bp

 RefSeq ORF:
 3048 bp

 Locus ID:
 5799

 UniProt ID:
 092932

Cytogenetics: 7q36.3

Domains: Y_phosphatase, PTPc_motif

Protein Families: Druggable Genome, Phosphatase

Protein Pathways: Type I diabetes mellitus

MW: 111.3 kDa

Gene Summary: This gene encodes a protein with sequence similarity to receptor-like protein tyrosine

phosphatases. However, tyrosine phosphatase activity has not been experimentally validated for this protein. Studies of the rat ortholog suggest that the encoded protein may instead

function as a phosphatidylinositol phosphatase with the ability to dephosphorylate

phosphatidylinositol 3-phosphate and phosphatidylinositol 4,5-diphosphate, and this function may be involved in the regulation of insulin secretion. This protein has been identified as an autoantigen in insulin-dependent diabetes mellitus. Alternative splicing results in multiple

transcript variants. [provided by RefSeq, Feb 2015]