

Product datasheet for RC215893L1

OriGene Technologies, Inc.

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Protein Phosphatase 1 beta (PPP1CB) (NM_002709) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Protein Phosphatase 1 beta (PPP1CB) (NM_002709) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Protein Phosphatase 1 beta

Synonyms: HEL-S-80p; MP; NSLH2; PP-1B; PP1B; PP1beta; PP1c; PPP1beta; PPP1CD

Mammalian Cell None

Selection:

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

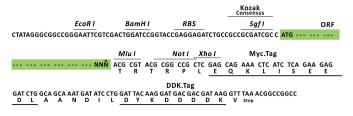
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC215893).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_002709

ORF Size: 981 bp



Protein Phosphatase 1 beta (PPP1CB) (NM_002709) Human Tagged Lenti ORF Clone - RC215893L1

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 002709.2</u>

 RefSeq Size:
 4991 bp

 RefSeq ORF:
 984 bp

 Locus ID:
 5500

 UniProt ID:
 P62140

Cytogenetics:

Domains: Metallophos, PP2Ac

Protein Families: Druggable Genome, Phosphatase

2p23.2

Protein Pathways: Focal adhesion, Insulin signaling pathway, Long-term potentiation, Oocyte meiosis, Regulation

of actin cytoskeleton, Vascular smooth muscle contraction

MW: 37 kDa

Gene Summary: The protein encoded by this gene is one of the three catalytic subunits of protein

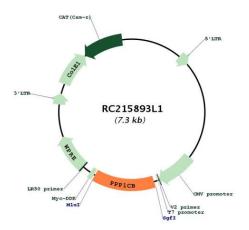
phosphatase 1 (PP1). PP1 is a serine/threonine specific protein phosphatase known to be involved in the regulation of a variety of cellular processes, such as cell division, glycogen metabolism, muscle contractility, protein synthesis, and HIV-1 viral transcription. Mouse

studies suggest that PP1 functions as a suppressor of learning and memory. Two alternatively spliced transcript variants encoding distinct isoforms have been observed.

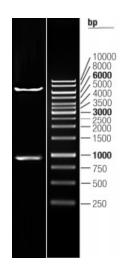
[provided by RefSeq, Jul 2008]



Product images:



Circular map for RC215893L1



Double digestion of RC215893L1 using Sgfl and Mlul