

Product datasheet for RC223746L4

OriGene Technologies, Inc.

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PTP alpha (PTPRA) (NM_080840) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: PTP alpha (PTPRA) (NM_080840) Human Tagged Lenti ORF Clone

Tag: mGFP

Symbol: PTP alpha

Synonyms: HEPTP; HLPR; HPTPA; HPTPalpha; LRP; PTPA; PTPRL2; R-PTP-alpha; RPTPA

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

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

ORF Nucleotide The ORF insert of this clone

Sequence:

The ORF insert of this clone is exactly the same as(RC223746).

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_080840

ORF Size: 2379 bp





PTP alpha (PTPRA) (NM_080840) Human Tagged Lenti ORF Clone - RC223746L4

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 080840.1</u>, <u>NP 543030.1</u>

 RefSeq Size:
 3279 bp

 RefSeq ORF:
 2382 bp

 Locus ID:
 5786

 UniProt ID:
 P18433

Cytogenetics:

Domains: Y_phosphatase, PTPc_motif

20p13

Protein Families: Druggable Genome, Phosphatase, Transmembrane

MW: 87.6 kDa

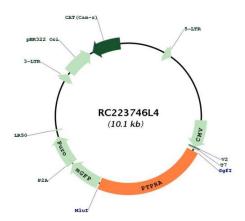
Gene Summary: The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP)

family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus represents a receptor-type PTP. This PTP has been shown to dephosphorylate and activate Src family tyrosine kinases, and is implicated in the regulation of integrin signaling, cell adhesion and proliferation. Three alternatively spliced variants of this gene, which encode two distinct isoforms, have been reported. [provided by

RefSeq, Jul 2008]



Product images:



Circular map for RC223746L4