

Product datasheet for **SC128017**

PTPRS (NM_130853) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPRS (NM_130853) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTPRS
Synonyms:	PTPSIGMA; R-PTP-S; R-PTP-sigma
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_130853, the custom clone sequence may differ by one or more nucleotides

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5' Read Nucleotide Sequence: >OriGene 5' read for NM_130853 unedited
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3' Read Nucleotide Sequence: >Forward primer walk for NM_130853 unedited
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 GCCCGGGCGCCAGCGACCTCCCTGGCACCGGCCCGCCCTTCAATACTTGGCACATA
 TCTCCTTCTCTTACAATTCCAA

Restriction Sites: Please inquire

ACCN: NM_130853

Insert Size: 6000 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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: [NM_130853.1](#), [NP_570923.1](#)

RefSeq Size: 5159 bp

RefSeq ORF: 4506 bp

Locus ID: 5802

UniProt ID: [Q13332](#)

Cytogenetics: 19p13.3

Protein Families: Druggable Genome, Phosphatase, Transmembrane

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 region, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus represents a receptor-type PTP. The extracellular region of this protein is composed of multiple Ig-like and fibronectin type III-like domains. Studies of the similar gene in mice suggested that this PTP may be involved in cell-cell interaction, primary axonogenesis, and axon guidance during embryogenesis. This PTP has been also implicated in the molecular control of adult nerve repair. Four alternatively spliced transcript variants, which encode distinct proteins, have been reported. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (3) lacks four internal fragments within the coding region when compared to variant 1. The translation remains in-frame, and thus results in a protein that lacks four internal segments, as compared to isoform 1. Sequence Note: The transcript 3' UTR sequence was derived from a genomic record (AC118535.1) based on a series of overlapping EST alignments.