

Product datasheet for **SC128005**

PTPN13 (NM_080683) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPN13 (NM_080683) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTPN13
Synonyms:	FAP-1; hPTP1E; PNP1; PTP-BAS; PTP-BL; PTP1E; PTPL1; PTPLE
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_080683, the custom clone sequence may differ by one or more nucleotides

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_080683 unedited
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3' Read Nucleotide Sequence:

>OriGene 3' read for NM_080683 unedited
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CCCGAACCCCATTTTTCAATAAAGGTGCCTCGAGTTCAAGGCCCTGCAGGGGAAAG
ATGGGCCGAAGTGGGAGGGCTCCAGTGGGAAAAGAAGCCAACTCTGTTGAAAGGGG
TATGGGCTCGCCCGCCGAGAATAAAT

Restriction Sites:

NotI-NotI

ACCN:

NM_080683

Insert Size:

2630 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_080683.1](#), [NP_542414.1](#)

RefSeq Size:	8573 bp
RefSeq ORF:	7458 bp
Locus ID:	5783
UniProt ID:	Q12923
Cytogenetics:	4q21.3
Domains:	Y_phosphatase, B41, PDZ, PTPc_motif
Protein Families:	Druggable Genome, Phosphatase
Gene Summary:	<p>The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP is a large intracellular protein. It has a catalytic PTP domain at its C-terminus and two major structural domains: a region with five PDZ domains and a FERM domain that binds to plasma membrane and cytoskeletal elements. This PTP was found to interact with, and dephosphorylate, Fas receptor and IκBα through the PDZ domains. This suggests it has a role in Fas mediated programmed cell death. This PTP was also shown to interact with GTPase-activating protein, and thus may function as a regulator of Rho signaling pathways. Four alternatively spliced transcript variants, which encode distinct proteins, have been reported. [provided by RefSeq, Oct 2008]</p> <p>Transcript Variant: This variant (1) lacks an in-frame segment of a coding exon, compared to variant 4. The encoded protein (isoform 1) lacks 5 internal amino acids, compared to isoform 4.</p>