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Product datasheet for RC216402

PTPN13 (NM_080685) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPN13 (NM_080685) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PTPN13
Synonyms:	FAP-1; hPTP1E; PNP1; PTP-BAS; PTP-BL; PTP1E; PTPL1; PTPLE
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC216402 representing NM_080685 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCACGTGTCACTAGCTGAGGCCCTGGAGGTTCGGGGTGGACCACTTCAGGAGGAAGAAATATGGGCTG TATTAAATCAAAGTGCTGAAAGTCTCCAAGAATTATTCAGAAAAGTAAGCCTAGCTGATCCTGCTGCCCT TGGCTTCATCATTTCTCCATGGTCTCTGCTGTTGCTGCCATCTGGTAGTGTGTCATTTACAGATGAAAAT ATTTCCAATCAGGATCTTCGAGCATTCACTGCACCAGAGGTTCTTCAAAATCAGTCACTAACTTCTCTCT CAGATGTTGAAAAGATCCACATTTATTCTCTTGGAATGACACTGTATTGGGGGGCTGATTATGAAGTGCC TCAGAGCCAACCTATTAAGCTTGGAGATCATCTCAACAGCATACTGCTTGGAATGTGTGAGGATGTTATT TACGCTCGAGTTTCTGTTCGGACTGTGCTGGATGCTTGCAGTGCCCACATTAGGAATAGCAATTGTGCAC CCTCATTTTCCTACGTGAAACACTTGGTAAAACTGGTTCTGGGAAATCTTTCTGGGACAGATCAGCTTTC CTGTAACAGTGAACAAAAGCCTGATCGAAGCCAGGCTATTCGAGATCGATTGCGAGGAAAAGGATTACCA ACAGGAAGAAGCTCTACTTCTGATGTACTAGACATACAAAAGCCTCCACTCTCTCATCAGACCTTTCTTA ACAAAGGGCTTAGTAAATCTATGGGATTTCTGTCCATCAAAGATACACAAGATGAGAATTATTTCAAGGA CATTTTATCAGATAATTCTGGACGTGAAGATTCTGAAAATACATTCTCCCCTTACCAGTTCAAAACTAGT GGCCCAGAAAAAAAACCCATCCCTGGCATTGATGTGCTTTCTAAGAAGAAGATCTGGGCTTCATCCATGG ACTTGCTTTGTACAGCTGACAGAGACTTCTCTTCAGGAGAGACTGCCACATATCGTCGTTGTCACCCTGA GGCAGTAACAGTGCGGACTTCAACTACTCCTAGAAAAAAGGAGGCAAGATACTCAGATGGAAGTATAGCC TTGGATATCTTTGGCCCTCAGAAAATGGATCCAATATATCACACTCGAGAATTGCCCACCTCCTCAGCAA TATCAAGTGCTTTGGACCGAATCCGAGAGAGACAAAAGAAACTTCAGGTTCTGAGGGAAGCCATGAATGT AGAAGAACCAGTTCGAAGATACAAAACTTATCATGGTGATGTCTTTAGTACCTCCAGTGAAAGTCCATCT ATTATTTCCTCTGAATCAGATTTCAGACAAGTGAGAAGAAGTGAAGCCTCAAAGAGGTTTGAATCCAGCA GTGGTCTCCCAGGGGTAGATGAAACCTTAAGTCAAGGCCAGTCACAGAGACCGAGCAGACAATATGAAAC ACCCTTTGAAGGCAACTTAATTAATCAAGAGATCATGCTAAAACGGCAAGAGGAAGAACTGATGCAGCTA CAAGCCAAAATGGCCCTTAGACAGTCTCGGTTGAGCCTATATCCAGGAGACACAATCAAAGCGTCCATGC

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Protein Sequence:

>RC216402 representing NM_080685
Red=Cloning site Green=Tags(s)

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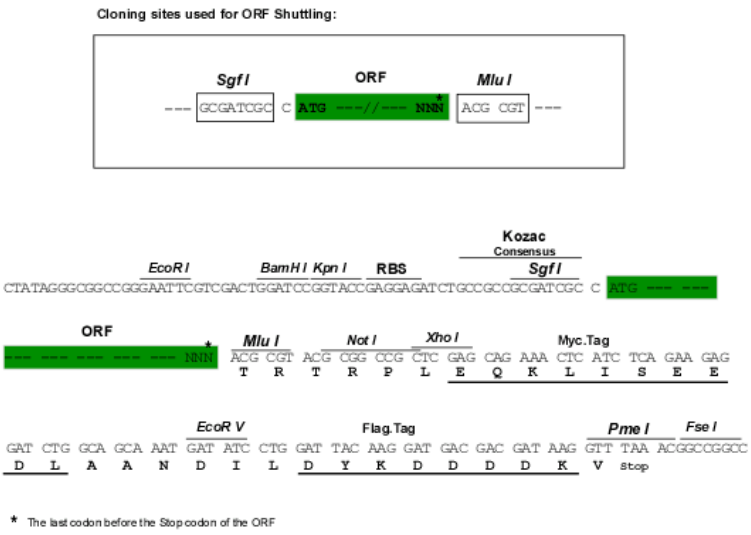
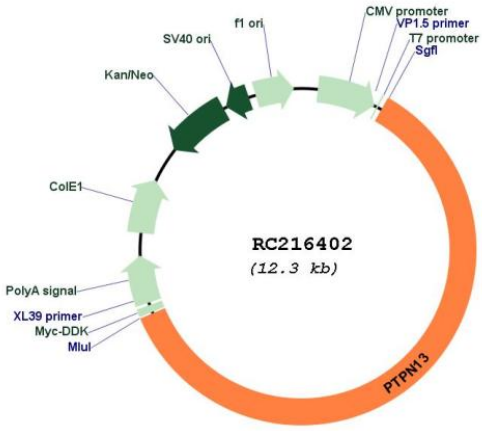
Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_080685

ORF Size: 7470 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
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:	NM_080685.2, NP_542416.1
RefSeq Size:	8588 bp
RefSeq ORF:	7473 bp
Locus ID:	5783
UniProt ID:	Q12923
Cytogenetics:	4q21.3
Protein Families:	Druggable Genome, Phosphatase
MW:	277.5 kDa

Gene Summary: 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 IkappaBalpha 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]