

Product datasheet for RC223995

PTPN20A (NM_001042387) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPN20A (NM_001042387) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PTPN20A
Synonyms:	bA142I17.1; CT126; hPTPN20; PTPN20B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223995 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTTCACCTAGGGACTTTAGAGCAGAGCCTGTAACGATTATGAGGGAAATGACTCTGAAGCAGAAG
ACTTGAATTTAGGGAGACTTTGCCTTCATCAAGTCAGGAAAACACACCTAGATCAAAGTTTTTGAAAA
TAAAGTTAATTCAGAGAAGGTAACCTTTCTCTCGGAATTTCCACATAATGATTATGAGGATGTTTT
GAAGAGCCTTCAGAAAGTGGCAGTGATCCAGCATGTGGACAGCCAGAGGCCCTTCAGAAGAGACAGGT
GGAGCAGTGAGGATGAGGAGGCTGCAGGGCCATCACAGGCTCTCTCCCTCTACTTTCTGATACGCGCAA
AATTGTTTCTGAAGGAGAACTAGATCAGTTGGCTCAGATTCGGCCATTAATTCATCAATTTTCATGAGCAG
ACAGCCATCAAGGATTGTTTGAAAATCCTTGAGGAAAAACAGCAGCGTATGATATCATGACGGAATTTA
TGGCTTTAGAACTTAAGAATCTGCCTGGTGAGTTCAACTCTGGGAATCAACCAAGCAACAGAGAAAAAAA
CAGATACCGAGATATTCTTCCATTTCAACATCATGGATATAGTGGCCCAAATGAGAGAACAACGTTCTGG
CATGGTTCAAACGAAGGAGCAGTATCACTTTTGTACGATATTGTGCT

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC223995 protein sequence
 Red=Cloning site Green=Tags(s)

MSSPRDFRAEPVNDYEGNDSEAEDLNFRETLPSSSQENTPRSKVFENKVNSEKVKLSLRNFPNDYEDVF
 EEPSESGSDPSMWTARGPFRDRWSEDEEAAGPSQALSPLLSDTRKIVSEGELDQLAQIRPLIFNFHEQ
 TAIKDCLKILEEKTAAYDIMQEFMALELKNLPGEFNSGNQPSNREKNRYRDILPFQHHGYSQPNERTTFW
 HGSNEGAVSLLLRYCA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6766_b11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001042387

ORF Size: 678 bp

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: [NM_001042387.1](#), [NP_001035846.1](#)

RefSeq Size: 2478 bp

RefSeq ORF: 680 bp

Locus ID: 653129

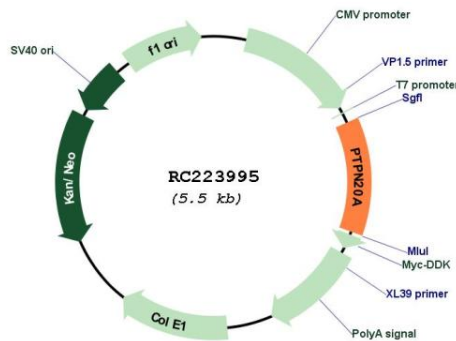
Cytogenetics: 10q11.22

Protein Families: Druggable Genome

MW: 25.9 kDa

Gene Summary: The product of this gene belongs to the family of classical tyrosine-specific protein tyrosine phosphatases. Many protein tyrosine phosphatases have been shown to regulate fundamental cellular processes and several are mutated in human diseases. Chromosome 10q contains a segmental duplication resulting in multiple copies of the protein tyrosine phosphatase, non-receptor type 20 gene. The two nearly identical copies are designated as PTPN20A and PTPN20B. A third copy is only partially duplicated and contains a pseudogene, designated as PTPN20C. This gene encodes the more centromeric copy, PTPN20A. Multiple alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC223995