

Product datasheet for **RC222945**

PTPN20A (NM_001042393) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PTPN20A (NM_001042393) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PTPN20A
Synonyms: bA142I17.1; CT126; hPTPN20; PTPN20B
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC222945 representing NM_001042393
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGATTGTAACGATTATGAGGGAAATGACTCTGAAGCAGAAGACTTGAATTTACGGGAGACTTTGCCTT
CATCAAGTCAGGAAAACACACCTAGATCAAAGTTTTTTGAAAATAAAGTTAATTCAGAGAAGGTAACCT
TTCTCTTCGGAAATTTCCACATAATGATTATGAGGATGTTTTTGAAGAGCCTTCAGAAAGTGGCAGTGAT
CCCAGCATGTGGACAGCCAGAGGCCCTTCAGAAGAGACAGGTGGAGCAGTGAGGATGAGGAGGCTGCAG
GGCCATCACAGGCTCTCTCCCTCTACTTTCTGATACGCGCAAAATTGTTTCTGAAGGAGAACTAGATCA
GTTGGCTCAGATTCGGCCATTAATCAATTTTCATGAGCAGACAGCCATCAAGGATTGTTGAAAATC
CTTGAGGAAAAACAGCAGCGTATGATATCATGCAGGAATTTATGGCTTTAGAATTAAGAATCTGCCTG
GTGAGTTCAACTCTGGGAATCAACCAAGCAACAGAGAAAAAACAGATACCGAGATATTCTCCATTTCA
ACATCATGGATATAGTGGCCAAATGAGAGAACAACGTTCTGGCATGGTTCAAACGAAGGAGCAGTATCA
CTTTTGTACGATATTGTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC222945 representing NM_001042393
Red=Cloning site Green=Tags(s)

MIVNDYEGNDSEAE DLNFR ETL PSSSQENTPRSKV FENKVNSEKVKLSLRNFPHNDYEDVFEEPSSESGD
 PSMWTARGPFRRDRWSS EDEEAAGPSQAL SPLLS DTRKIVSEGELDQLAQIRPLIFNFHEQTAIKDCLKI
 LEEKTAAYDIMQEFMALELKNLPG EFN SGNQPSNREKNRYRDILPFQHHGYS GPNERTTFWHGSNEGAVS
 LLLRYCA

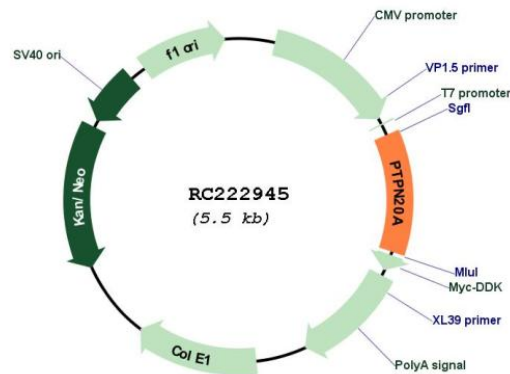
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001042393

ORF Size: 651 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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:	<p>NM_001042393.1, NP_001035852.1</p>
RefSeq Size:	<p>2319 bp</p>
RefSeq ORF:	<p>653 bp</p>
Locus ID:	<p>653129</p>
Cytogenetics:	<p>10q11.22</p>
Protein Families:	<p>Druggable Genome</p>
MW:	<p>24.7 kDa</p>
Gene Summary:	<p>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]</p>