

## Product datasheet for RC217320

### PTPN20A (NM\_001042389) Human Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | PTPN20A (NM_001042389) 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:  | >RC217320 representing NM_001042389<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTTCACCTAGGGACTTTAGAGCAGAGCCTGTAACGATTATGAGGGAAATGACTCTGAAGCAGAAG  
ACTTGAATTTAGGGAGACTTTGCCTTCATCAAGTCAGGAAAACACACCTAGATCAAAGGTTTTTAAAA  
TAAAGTTAATTCAGAGAAGGTAACCTTTCTCTCGGAATTTCCACATAATGATTATGAGGATGTTTT  
GAAGAGCCTTCAGAAAGTGGCAGTGATCCAGCATGTGGACAGCCAGAGGCCCTTCAGAAGAGACAGGT  
GGAGCAGTGAGGATGAGGAGGCTGCAGGGCCATCACAGGCTCTCTCCCTCTACTTTCTGATACGCGCAA  
AATTGTTTCTGAAGGAGAACTAGATCAGTTGGCTCAGATTCGGCCATAATATTCAATTTTCATGAGCAG  
ACAGCCATCAAGGATTGTTTAAAAATCCTTGAGAAAAAACAGCAGCGTATGATATCATGCAAGAAATTTA  
TGGCTTTAGAAGTAAAGAACTGCTGCTGGTGAAGTCAACTCTGGGAATCAACCAAGCAACAGAGAAAAAA  
CAGATACCGAGATATTCTTCCATATGATTCAACACGCGTTCCTCTTGAAAAAGCAAGGACTACATCAAT  
GCTAGTTATATTAGAATAGTCAATTGTGGAGAAGAGTATTTTTATATCGCTACTCAAGGACCACTGCTGA  
GCACCATAGATGACTTTTGGCAAATGGTGTGGAAAAATAATCAAATGTTATTGCCATGATAACCAAGAGA  
GATAGAAGGTGGAATTATCAAATGCTACCATTACTGGCCATTTCTCTGAAGAAGCCATTGGAATTGAAA  
CACTTCCGTGTATTCCTGGAGAAGTACCAGATACTTCAATATTTTCATTCGAATGTTTCAAGTTGTGG  
AGAAGTCCACGGAACTAGTCACTCTGTAACACAGTTGCAAGTTCACCAAGTGGCCAGACCATGGCACTCC  
TGCCCTCAGCAGATAGCTTCATAAAATATATTGTTATGCAAGGAAGGCCACCTTACAGGACCCATGGTT  
GTTCACTGCAGTGCCGGCATAGGCCGGACAGGGGTGTTCCATGTGTGGATGTCGTGTTCTGTGCCATCG  
TAAAGAAGTGTTCATTCAACATCATGGATATAGTGGCCAAATGAGAGAACAACGTTCTGGCATGGTTCA  
AACGAAGGAGCAGTATCACTTTTGTACGATATTGTGCTTGAAGTTCTTCGAAACTTCTGACTTTGGAT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RC217320 representing NM\_001042389  
Red=Cloning site Green=Tags(s)

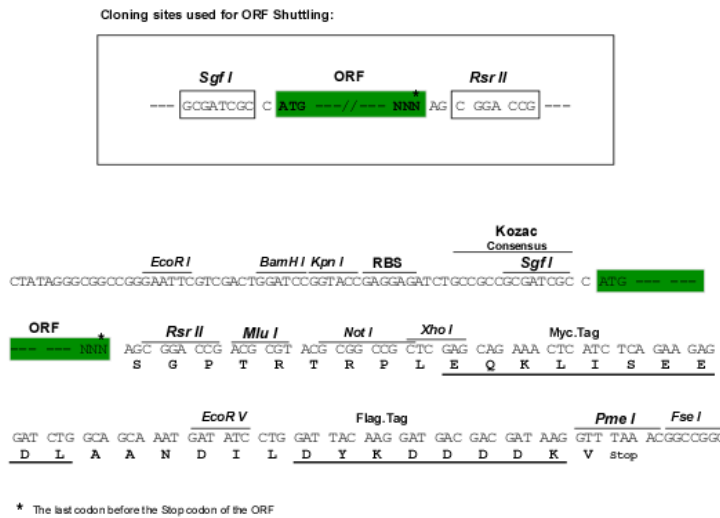
MSSPRDFRAEPVNDYEGNDSEAEDLNFRETLPSSSQENTPRSKVFENKVNSEKVKLSLRNFPNDYEDVF  
 EEPSESGSDPSMWTARGPFRDRWSEDEEAAGPSQALSPLLSDTRKIVSEGELDQLAIRPLIFNFHEQ  
 TAIKDKLKILEEKTAAYDIMQEFMAL ELKNLPGEFNSGNQPSNREKNRYRDILPYDSTRVPLGKSKDYIN  
 ASYIRIVNCGEEYFYIATQGPLLSTIDDFWQMVLENNSNVIAMITREIEGGI IKCYHYWPI SLKKPLELK  
 HFRVFL ENYQILQYFIIRMFQVVEKSTGTSHSVKQLQFTKWPDHGTPASADSF IKYIRYARKSHLTGPMV  
 VHCSAGIGRTGVFLCVDVVFCAIVKNCFSNIMDI VAQMREQRSGMVQTKEQYHFCYDIVLEVLRKLLTLD

SGPTRTRRLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8016\\_c05.zip](https://cdn.origene.com/chromatograms/mk8016_c05.zip)

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**



**ACCN:** NM\_001042389

**ORF Size:** 1260 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\\_001042389.1](#), [NP\\_001035848.1](#)

**RefSeq Size:** 2965 bp

**RefSeq ORF:** 1262 bp

**Locus ID:** 653129

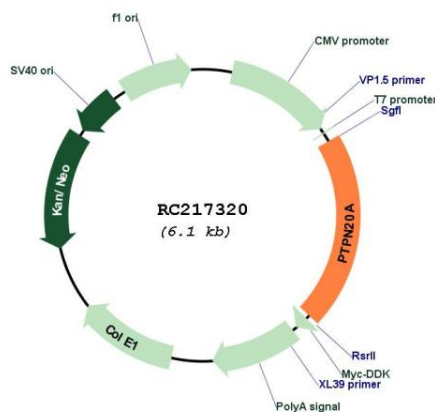
**Cytogenetics:** 10q11.22

**Protein Families:** Druggable Genome

**MW:** 48.2 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 RC217320