

## Product datasheet for **RC223479**

### **PTPN20B (PTPN20) (NM\_001042360) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PTPN20B (PTPN20) (NM\_001042360) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** PTPN20  
**Synonyms:** bA42B19.1; bA142I17.1; CT126; PTPN20A; PTPN20B  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC223479 representing NM\_001042360  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGC**C

ATGATTGATGATTCAACACGCGTTCCTCTTGAAAAAGCAAGGACTACATCAATGCTAGTTATATTAGAA  
TAGTCAATTGTGGAGAAGAGTATTTTTATATCGCTACTCAAGGACCACTGCTGAGCACCATAGATGACTT  
TTGGCAAATGGTGTGGAAAATAAATCAAATGTTATTGCCATGATAACCAGAGAGATAGAAGGTGAATT  
ATCAAATGCTACCATTACTGGCCATTTCTCTGAAGAAGCCATTGGAATTGAAACACTTCCGTGTATTCC  
TGGAGAACTACCAGATACTTCAATATTTTCATCATTGGAATGTTTCAAGTTGTGGAGAAGTCCACGGGAAC  
TAGTCACTCTGTAAAACAGTTGCAGTTCACCAAGTGGCCAGACCATGGCACTCCTGCCTCAGCAGATAGC  
TTCATAAAATATATTCGTTATGCAAGGAAGAGCCACCTTACAGGACCCATGGTTGTTCACTGCAGTGGCC  
GCATAGGCCGGACAGGGGTGTTCTATGTGTGGATGTCGTGTTCTGTGCCATCGTAAAGAACTGTTTCATT  
CAACATCATGGATATAGTGGCCAAATGAGAGAACAACGTTCTGGCATGGTTCAAACGAAGGAGCAGTAT  
CACTTTTGTTACGATATTGTGCTTGAAGTCTTCGGAACTTCTGACTTTGGAT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC223479 representing NM\_001042360  
 Red=Cloning site Green=Tags(s)

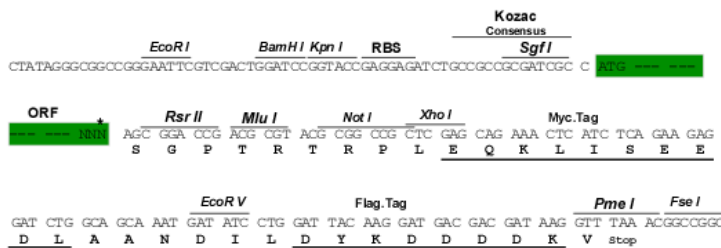
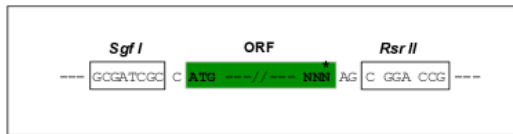
MIDDSTRVPLGKSKDYINASYIRIVNCGEEYFYIATQGPLLSTIDDFWQMVLENNSNVIAMITREIEGGI  
 IKCYHYWPI SLKKPLELKHFRVFL ENYQILQYFI IRMFQVVEKSTGTSHSVKQLQFTKWPDHGTPASADS  
 FIKYIRYARKSHLTGPMVVHCSAGIGRTGVFLCVDVVFCAIVKNCFSNIMDIVAQMREQRSGMVQTKEQY  
 HFCYDIVLEVLRLKLLTLD

SGPTRRRLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-RsrII

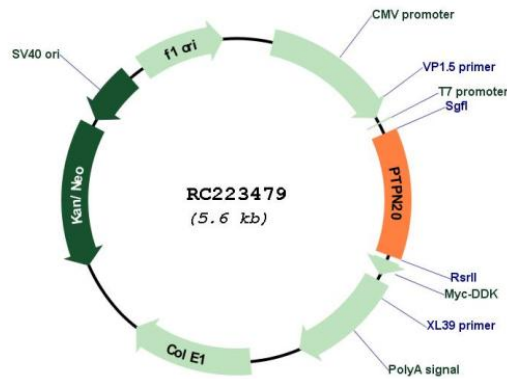
**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**



**ACCN:** NM\_001042360

**ORF Size:** 684 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001042360.3</a>
<b>RefSeq Size:</b>	2321 bp
<b>RefSeq ORF:</b>	687 bp
<b>Locus ID:</b>	26095
<b>UniProt ID:</b>	<a href="#">Q4IDL3</a>
<b>Cytogenetics:</b>	10q11.22
<b>Protein Families:</b>	Druggable Genome, Phosphatase
<b>MW:</b>	26.2 kDa
<b>Gene Summary:</b>	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. The encoded protein appears to be targeted to sites of actin polymerization. A pseudogene of this gene has been defined on chromosome 10. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2014]