

## Product datasheet for SC311249

### PTPN20A (NM\_001042391) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PTPN20A (NM_001042391) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTPN20A
Synonyms:	bA142I17.1; CT126; hPTPN20; PTPN20B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC311249 representing NM_001042391. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATTGTAAACGATTATGAGGGAAATGACTCTGAAGCAGAAGACTTGAATTTAGGGAGACTTTGCCT
TCATCAAGTCAGGAAAACACACCTAGATCAAAGGTTTTTGAATAAAGTTAATTCAGAGAAGGTAAAA
CTTTCTCTTCGGAATTTCCACATAATGATTATGAGGATGTTTTGAAGAGCCTTCAGAAAGTGGCAGT
GATCCCAGCATGTGGACAGCCAGAGGCCCTTCAGAAGAGACAGGTGGAGCAGTGAGGATGAGGAGGCT
GCAGGGCCATCACAGGCTCTCTCCCTCTACTTTCTGATACGCGCAAAATTGTTTCTGAAGGAGAACTA
GATCAGTTGGCTCAGATTCGGCCATTAATTTCAATTTTCATGAGCAGACAGCCATCAAGGATTGTTTG
AAAATCCTTGAGGAAAAACAGCAGCGTATGATATCATGCAGGAATTTATGACGGGAAGTCACTCT
GTAAAACAGTTGCAGTTCACCAAGTGGCCAGACCATGGCACTCCTGCCTCAGCAGATAGCTTCATAAAA
TATATTCGTTATGCAAGGAAGAGCCACCTTACAGGACCCATGGTTGTTCACTGCAGTGCCGGCATAGGC
CGGACAGGGGTGTTCTATGTGTGGATGTCGTGTTCTGTGCCATCGTAAAGAACTGTTCAATCAACATC
ATGGATATAGTGGCCAAATGAGAGAACAACGTTCTGGCATGTTCAAACGAAGGAGCAGTATCACTTT
TGTTACGATATTGTGCTTGAAGTTCTTCGAAACTTCTGACTTTGGATTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

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Restriction Sites:	SgfI-MluI
ACCN:	NM_001042391
Insert Size:	810 bp


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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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>	<u>NM_001042391.1</u>
<b>RefSeq Size:</b>	2444 bp
<b>RefSeq ORF:</b>	810 bp
<b>Locus ID:</b>	653129
<b>Cytogenetics:</b>	10q11.22
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	30.6 kDa
<b>Gene Summary:</b>	<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> <p>Transcript Variant: This variant (4) differs in the 5' UTR and in the 5' coding region, compared to variant 1. It also lacks an in-frame segment of the coding region, compared to variant 1. The resulting protein (isoform 4) is shorter and contains a distinct N-terminus, compared to isoform 1.</p>