

Product datasheet for **RG216109**

PTPN20A (NM_001042391) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPN20A (NM_001042391) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PTPN20A
Synonyms:	bA142I17.1; CT126; hPTPN20; PTPN20B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216109 representing NM_001042391 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATTGTAAACGATTATGAGGGAAATGACTCTGAAGCAGAAGACTTGAATTTTCAGGGAGACTTTGCCTT
CATCAAGTCAGGAAAACACACCTAGATCAAAGGTTTTTGGAAAATAAAGTTAATTCAGAGAAGGTAAGTAACT
TTCTCTTCGGAATTTCCACATAATGATTATGAGGATGTTTTTGAAGAGCCTTCAGAAAGTGGCAGTGAT
CCCAGCATGTGGACAGCCAGAGGCCCTTCAGAAGAGACAGGTGGAGCAGTGAGGATGAGGAGGCTGCAG
GGCCATCACAGGCTCTCTCCCTCTACTTTCTGATACGCGCAAATTTGTTTCTGAAGGAGAACTAGATCA
GTTGGCTCAGATTCGGCCATTAATATTCATTTTCATGAGCAGACAGCCATCAAGGATTGTTGAAAATC
CTTGAGGAAAAACAGCAGCGTATGATATCATGCAGGAATTTATGACGGGAACTAGTCACTCTGTAAGAAAC
AGTTGCAGTTCACCAAGTGGCCAGACCATGGCACTCCTGCCTCAGCAGATAGCTTCATAAAATATATTTCG
TTATGCAAGGAAGAGCCACCTTACAGGACCCATGGTTGTTCACTGCAGTGCCGGCATAGGCCGGACAGGG
GTGTTCTATGTGTGGATGTCGTGTTCTGTGCCATCGTAAAGAACTGTTCAATCAACATCATGGATATAG
TGGCCAAATGAGAGAACAACGTTCTGGCATGGTTCAAACGAAGGAGCAGTATCACTTTTGTACGATAT
TGTGCTTGAAGTTCTTCGAAACTTCTGACTTTGGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG216109 representing NM_001042391
Red=Cloning site Green=Tags(s)

MIVNDYEGNDSEAE DLNFR ETL PSSSQENTPRSKVFNKVNSEKVKLSLRNFPHN DYEDVFEE PSESGSD
 PSMWTARGPFRDRWSS EDEEAAGPSQAL SPLLS DTRKIVSE GELDQLAQIRPLIFNFHEQTAIKDCLKI
 LEEKTAAYDIMQEFMTGTSHSVKQLQFTKWPDHGTPASADSF IKYIRYARKSHL TGPVVHCSAGIGRTG
 VFLCVDVVVFC AIVKNCSFNIMDIVAQMREQRSGMVQTKEQYHFCYDIVLEVLRKLLTLD

TRTRPLE - GFP Tag - V

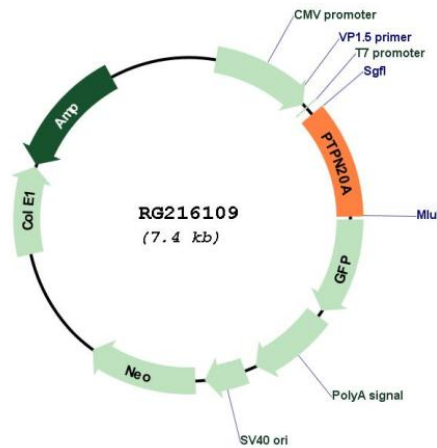
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001042391

ORF Size: 807 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:	<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:	NM_001042391.1 , NP_001035850.1
RefSeq Size:	2444 bp
RefSeq ORF:	809 bp
Locus ID:	653129
Cytogenetics:	10q11.22
Protein Families:	Druggable Genome
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>