

Product datasheet for **RG216254**

PTPN7 (NM_080588) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPN7 (NM_080588) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PTPN7
Synonyms:	BPTP-4; HEPTP; LC-PTP; LPTP; PTPNI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216254 representing NM_080588 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAGCCTCCTTCTGGCCAATCAGGCAGGCCAGAGAACAGCAGCGGAGGGCCCTGTCTTTCAGGCAGAC
CCTCATGGCTGAGTGAGCCTCCCCTGGGCCAGCACCCACCTCAGCATGGTCCAAGCCCATGGGGGCG
CTCCAGAGCACAGCCGTTGACCTGTCTTTGGGGCAGCCATGACCCAGCCTCCGCTGAAAAACGCCA
GCCAAGAAGCATGTGCGACTGCAGGAGAGGGGGCTCCAATGTGGCTCTGATGTGGACGTTCCGTCCC
TGGGGCCGTAGAACCCTCTGCTCTGTGAACACACCCCGGAGGTCACCCTACACTTTCTGCGCACTGC
TGGACACCCCTTACCCGCTGGGCCCTTACAGCCAGCCACCCAGCCCAAGCAACTGGAAGAAGAATTC
TTGAAGATCCCTTCAAATTTGTGAGCCCGAAGACCTGGACATCCCTGGCCACGCTCCAAGGACCGAT
ACAAGACCATCTTGCCAAATCCCCAGAGCCGTGTCTGTCTAGGCCGGGCACAGAGCCAGGAGGACGGAGA
TTACATCAATGCCAACTACATCCGAGGCTATGACGGGAAGGAGAAGGTCTACATTGCCACCCAGGGCCCC
ATGCCAACACTGTGTCGGACTTCTGGGAGATGGTGTGGCAAGAGGAAGTGTCCCTCATTGTGATGCTCA
CTCAGTCCGAGAGGGCAAGGAGAAATGTGTCCACTACTGGCCACAGAAGAGGAAACCTATGGACCTT
CCAGATCCGCATCCAGGACATGAAAGAGTGCACAGAATACTGTGCGGCAGCTCACCATCCAGTACCAG
GAAGAGCGCCGGTCAGTAAAGCACATCCTTTTTCGGCCAGCCATCAGACACCAGAATCAGCTG
GGCCCTGCTGCGCCTAGTGGCAGAGGTGGAGGAGAGCCCGGAGACAGCCGCCACCCCGGCCTATCGT
AGTCCACTGCAGTGCAGGATTGGCCGGACGGGCTGCTTCATCGCCACGGAATTGGCTGTCAACAGCTG
AAAGCCCAGGAGAAGTGGACATTCTGGGTATTGTGTGCAACTGCGGCTAGACAGAGGGGGGATGATCC
AGACGGCAGAGCAGTACCAGTTCCTGCACCACACTTTGGCCCTGTATGCAGGCCAGCTGCCTGAGGAACC
CAGCCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG216254 representing NM_080588
Red=Cloning site Green=Tags(s)

MGASFWPIRQAREQRRALSFRQTSWLSSEPPLGPAPHL SMVQAHGGRSRAQPLT LSLGAAMTQPPPEKTP
 AKKHVRLQERRGNSVALMLDVRS LGAVEP ICSVNTPREVTLHFLRTAGHPLTRWALQRQPPSPKQLEEEF
 LKIPSNFVSPEDLDIPGHASKDRYKTI L PNPQSRVCLGRAQSQEDGDYINANYIRGYDGKEKYIATQGP
 MPNTVSDFWEMVWQEEVSLIVMLTQLREGKEKCVHYWPTTEEETYGPFQIRIQDMKECPEYTVRQLTIQYQ
 EERRSVKHILFSAWPDHQTPE SAGPLLR LVAEVEESPETA AHPGPIVHCSAGIGRTGCFIATRIGCQQL
 KARGEVDILGIVCQLRLDRGGMIQTAEQYQFLHHTLALYAGQLPEEPS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_080588

ORF Size: 1197 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_080588.2](#)

RefSeq Size: 3263 bp

RefSeq ORF: 1200 bp

Locus ID: 5778

UniProt ID: [P35236](#)

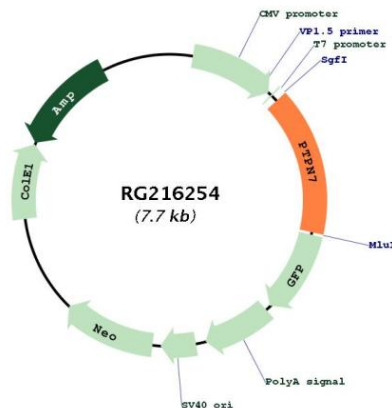
Cytogenetics: 1q32.1

Protein Families: Druggable Genome, Phosphatase

Protein Pathways: MAPK signaling pathway

Gene Summary: The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This gene is preferentially expressed in a variety of hematopoietic cells, and is an early response gene in lymphokine stimulated cells. The non-catalytic N-terminus of this PTP can interact with MAP kinases and suppress the MAP kinase activities. This PTP was shown to be involved in the regulation of T cell antigen receptor (TCR) signaling, which was thought to function through dephosphorylating the molecules related to MAP kinase pathway. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Dec 2010]

Product images:



Circular map for RG216254