

Product datasheet for RC200699

PTPN7 (NM_002832) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPN7 (NM_002832) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PTPN7
Synonyms:	BPTP-4; HEPTP; LC-PTP; LPTP; PTPNI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200699 representing NM_002832 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAGCCTCCTTCTGGCCAATCAGGCAGGCCAGAGAACAGCAGCGGAGGGCCCTGTCTTTCAGGCAGA
CCTCATGGCTGAGTGAGCCTCCCCTGGGCCAGCACCCACCTCAGCATGGTCCAAGCCCATGGGGGCG
CTCCAGAGCACAGCCGTTGACCTTGTCTTTGGGGCAGCCATGACCCAGCCTCCGCTGAAAAACGCCA
GCCAAGAAGCATGTGCGACTGCAGGAGAGGGGGCTCCAATGTGGCTCTGATGCTGGACGTTTCGTC
TGGGGCCGTAGAACCCTCTGCTCTGTGAACACACCCCGGAGGTCACCCTACACTTTCTGCGCACTGC
TGGACACCCCTTACCCGCTGGGCCCTTACGCGCCAGCCACCCAGCCCAAGCAACTGGAAGAAGAATTC
TTGAAGATCCCTTCAAATTTGTGAGCCCGAAGACCTGGACATCCCTGGCCACGCTCCAAGGACCGAT
ACAAGACCATCTTGCCAAATCCCCAGAGCCGTGTCTGTCTAGGCCGGGCACAGAGCCAGGAGGACGGAGA
TTACATCAATGCCAACTACATCCGAGGCTATGACGGGAAGGAGAAGGTCTACATTGCCACCCAGGGCCCC
ATGCCAACACTGTGTCCGACTTCTGGGAGATGGTGTGGCAAGAGGAAGTGTCCCTCATTGTGATGCTCA
CTCAGCTCCGAGAGGGCAAGGAGAAATGTGTCCACTACTGGCCACAGAAGAGGAAACCTATGGACCTT
CCAGATCCGCATCCAGGACATGAAAGAGTGCCAGAATAACTGTGCGGCAGCTCACCATCCAGTACCAG
GAAGAGCGCCGGTCAGTAAAGCACATCCTTTTTCGGCCAGCCATCAGACACCAGAATCAGCTG
GGCCCTGCTGCGCCTAGTGGCAGAGGTGGAGGAGAGCCCGGAGACAGCCGCCACCCCGGCCTATCGT
AGTCCACTGCAGTGCAGGATTGGCCGGACGGGCTGCTTCATCGCCACGGAATTGGCTGTCAACAGCTG
AAAGCCCAGGAGAAGTGGACATTCTGGGTATTGTGTGCAACTGCGGCTAGACAGAGGGGGGATGATCC
AGACGGCAGAGCAGTACCAGTTCCTGCACCACACTTTGGCCCTGTATGCAGGCCAGCTGCCTGAGGAACC
CAGCCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC200699 representing NM_002832
 Red=Cloning site Green=Tags(s)

MGASFWPIRQAREQRRALSFRTSWLSEPLLPAPHL SMVQAHGGRSRAQPLT LSLGAAMTQPPPEKTP
 AKKHVRLQERRGSNVALMLDVRLSGAVEPICSVNTPREVTLHFLRTAGHPLTRWALQRQPPSPKQLEEEF
 LKIPSNFVSPEDLDIPGHASKDRYKTI L PNPQSRVCLGRAQSQEDGDYINANYIRGYDGKEKVIATQGP
 MPNTVSDFWEMVWQEEVSLIVMLTQLREGKEKCWHYWPTEEETYGPFQIRIQDMKECPEYTVRQLTIQYQ
 EERRSVKHILFSAPWDHQTPE SAGPLLRLVAEVEESPETA AHPGPIVVHCSAGIGRTGCFIATRIGCQQL
 KARGEVDILGIVCQLRLDRGGMIQTAEQYQFLHHTLALYAGQLPEEPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_002832

ORF Size: 1197 bp

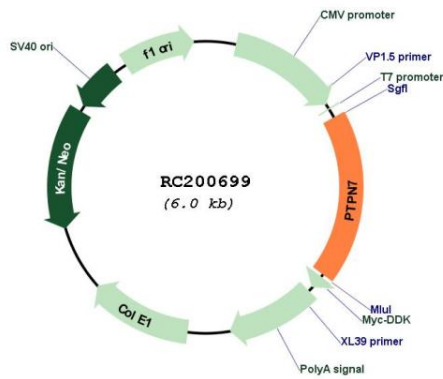
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_002832.2 , NP_002823.2
RefSeq Size:	3772 bp
RefSeq ORF:	1083 bp
Locus ID:	5778
UniProt ID:	P35236
Cytogenetics:	1q32.1
Protein Families:	Druggable Genome, Phosphatase
Protein Pathways:	MAPK signaling pathway
MW:	45 kDa
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 RC200699



Coomassie blue staining of purified PTPN7 protein (Cat# [TP300699]). The protein was produced from HEK293T cells transfected with PTPN7 cDNA clone (Cat# RC200699) using MegaTran 2.0 (Cat# [TT210002]).