

## Product datasheet for **RC238753**

### **PTPN5 (NM\_001278236) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PTPN5 (NM_001278236) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PTPN5
Synonyms:	PTPSTEP; STEP; STEP61
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC238753 representing NM\_001278236  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAATTATGAGGAGCCAGGAGTGAGAGAGAGAACCACGCTGCTGATGACTCCGAGGGAGGGCCCTGG  
 ACATGTGCTGCAGTGAGAGGCTACCGGGTCTCCCCAGCCGATAGTGATGGAGGCACTGGACGAGGCTGA  
 AGGGCTCCAGGACTCACAGAGAGAGATGCCGCCACCCCTCCTCCCTCGCCGCCCTCAGATCCAGCTCAG  
 AAGCCACCACCTCGAGGCGCTGGGAGCCACTCCCTCACTGTCAGGAGCAGCCTGTGCCTGTTTCGCTGCCT  
 CACAGTTCCTGCTGGAACCCACGGCCTGGCTTGACTCTGGGACGTGGGGAGTCCCAGTCTGCTGCTGGT  
 CTTTCTGTCCGTGGCCCTGGTCTCGTTACCACCCTGGTGTGGCACCTCCTGAGGACACCCCCAGAGCCA  
 CCCACCCACTGCCCCCTGAGGACAGGCGCCAGTCAGTGAGCCGCCAGCCCTCCTCACCTACTCAGAGT  
 GGATGGAGGAGAAGATCGAGGATGACTTCTGGACCTCGACCCGGTGCCCGAGACTCCTGTGTTTGATTG  
 TGTGATGGACATCAAGCCTGAGGCTGACCCACCTCACTACCGTCAAGTCCATGGGTCTGCAGGAGAGG  
 AGGGGTTCCAATGTCTCCCTGACCTGGACATGTGCACTCCGGGCTGCAACGAGGAGGGCTTTGGCTATC  
 TCATGTCCCCACGTGAGGAGTCCGCCCGGAGTACCTGCTCAGCGCCTCCCGTGTCTCCAAGCAGAAGA  
 GCTTATGAAAAGGCCCTGGACCCTTCTGCTGCAGGCGGAATTCCTTGAATCCCCATGAACTTTGTG  
 GATCCGAAAGAGTACGACATCCCTGGGCTGGTGCAGGGAAGAACCGGTACAAAACCTACTTCCCAACCCCTC  
 ACAGCAGAGTGTGCTGACCTCACCCAGACCCTGACGACCTCTGAGTTCCTACATCAATGCCAATACAT  
 CCGGGGCTATGGTGGGAGGAGAAGGTGTACATCGCCACTCAGGGACCCATCGTCAGCACGGTCCGCCGAC  
 TTCTGGCGCATGGTGTGGCAGGAGCACAGCCCATCATTGTGATGATACCAACATCGAGGAGATGAACG  
 AGAAATGCACCGAGTATTGGCCGGAGGAGCAGGTGGCGTACGACGGTGTGAGATCACTGTCAGAAAGT  
 CATTACACGGAGGATTACCGGCTGCGACTCATCTCCCTCAAGAGTGGGACTGAGGAGCGAGGCCTGAAG  
 CATTACTGGTTCACATCCTGGCCCGACCAAGACCCAGACCGGGCCCCCACTCCTGCACCTGGTGC  
 GGGAGGTGGAGGAGGAGCCAGCAGGAGGGGCCCACTGTGCCCCATCATCGTCCACTGCAGTGCAGG  
 GATTGGGAGGACCGGCTGCTTCATTGCCACCAGCATCTGCTGCCAGCAGCTGCGGAGGAGGGTGTGGT  
 GACATCCTGAAGACCACGTGCCAGCTCCGTGAGGACAGGGGCGGCATGATCCAGACATGCGAGCAGTACC  
 AGTTTGTGCCACCAGTCAAGCCTCTACGAAAAGCAGTGTCCACCAGTCCCCAGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238753 representing NM\_001278236  
 Red=Cloning site Green=Tags(s)

MNYEGARSERENHAADDSEGGALDMCCSERLPGLPQPIVMEALDEAEGLQDSQREMPPPPPSPSPDPAQ  
 KPPPRGAGSHSLTVRSSLCLFAASQFLLEPTAWLDSGTWGVPSLLLVLVSVGLVLTTLVWHLRTPPEP  
 PTPLPPEDRRQSVSRQPSFTYSEWEEKIEDDFLDLDPVPETPVFDCVMDIKPEADPTSLTVKSMGLQER  
 RGSNVSLTDMCTPGCNEEGFGLMSPREESAREYLLSASRVLQAEELHEKALDPFLLQAEFFEIPMNFV  
 DPKEYDIPGLVRKNRYKILPNPHSRVCLTSPDPDDPLSSYINANYIRGYGEEKVYIATQGPIVSTVAD  
 FWRMVWQEHTPIIVMITNIEEMNEKCTEYWPVEEQVAYDGVETVQKVIHTEDYRLRLISLKSGETEERGLK  
 HYWFTSWPDQKTPDRAPPLHLVREVEAAQEGPHCAPIVHCSAGIGRTGCFIATSICCCQLRQEGV  
 DILKTTCCQLRQDRGGMIQTCEQYQFVHHVMSLYEKQLSHQSPE

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8065\\_h09.zip](https://cdn.origene.com/chromatograms/mk8065_h09.zip)

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001278236

ORF Size: 1599 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\\_001278236.1](#), [NP\\_001265165.1](#)

RefSeq Size: 3939 bp

RefSeq ORF: 1602 bp

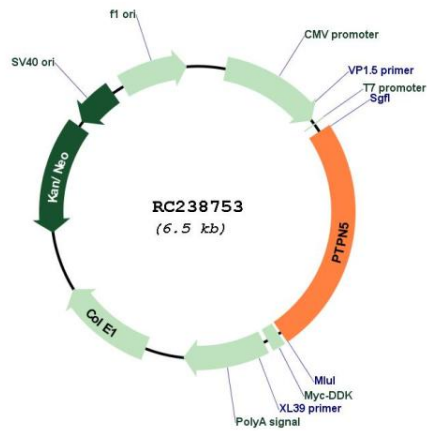
Locus ID: 84867

UniProt ID: [P54829](#)

Cytogenetics: 11p15.1

Protein Families:	Druggable Genome, Phosphatase, Transmembrane
Protein Pathways:	MAPK signaling pathway
MW:	60 kDa
Gene Summary:	May regulate the activity of several effector molecules involved in synaptic plasticity and neuronal cell survival, including MAPKs, Src family kinases and NMDA receptors. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RC238753