

Product datasheet for **RC238630**

PTPN5 (NM_001278239) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPN5 (NM_001278239) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PTPN5
Synonyms:	PTPSTEP; STEP; STEP61
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RC238630 representing NM_001278239
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGCTGCAGTGAGAGGCTACCGGTCTCCCCAGCCGATAGTGATGGAGGCACTGGACGAGGCTGAAG
 GGCTCCAGGACTCACAGAGAGAGATGCCGCCACCCCTCCTCCCTCGCCGCCCTCAGATCCAGCTCAGAA
 GCCACCACCTCGAGGCGCTGGGAGCCACTCCCTACTGTGAGGAGCAGCCTGTGCCTGTTGCTGCCCTCA
 CAGTTCCTGCTGGAACCCACGGCCTGGCTTACTCTGGGACGTGGGGAGTCCCCAGTCTGCTGCTGGTCT
 TTCTGTCCGTGGGCTGGTCTCGTTACCACCCTGGTGTGGCACCTCCTGAGGACACCCCAAGCCACC
 CACCCACTGCCCTGAGGACAGGCGCCAGTCAGTGAGCCGCCAGCCCTCCTTACCTACTCAGAGTGG
 ATGGAGGAGAAGATCGAGGATGACTTCTGGACCTCGACCCGGTGCCGAGACTCCTGTGTTTGATTGTG
 TGATGGACATCAAGCCTGAGGCTGACCCACCTACTCACCGTCAAGTCCATGGGTCTGCAGGAGAGGAG
 GGGTTCCAATGTCTCCCTGACCTGGACATGTGCACTCCGGGCTGCAACGAGGAGGGCTTTGGCTATCTC
 ATGTCCCCACGTGAGGAGTCCGCCCGCAGTACCTGCTCAGCGCCTCCCGTGTCTCCAAGCAGAAGAGC
 TTCATGAAAAGGCCCTGGACCCTTCTGCTGCAGGCGGAATTTCTTGAATCCCATGAACTTTGTGGA
 TCCGAAAGAGTACGACATCCCTGGGCTGGTGGGAAGAACCAGTACAAAACCATACTTCCAACCCTCAC
 AGCAGAGTGTGTCTGACCTACCAGACCCTGACGACCCTCTGAGTTCTACATCAATGCCAACTACATCC
 GGGGCTATGGTGGGAGGAGAAGGTGTACATCGCCACTCAGGGACCCATCGTCAGCACGGTGCAGGACTT
 CTGGCGCATGGTGGCAGGAGCACAGCCCATCATTGTATGATCACCAACATCGAGGAGATGAACGAG
 AAATGCACCGAGTATTGGCCGGAGGAGCAGGTGGCGTACGACGGTGTGAGTACTGTGCAGAAAGTCA
 TTCACAGGAGGATTACCGGCTGCGACTCATCTCCCTCAAGAGTGGGACTGAGGAGCGAGGCTGAAGCA
 TTACTGGTTCACATCCTGGCCCGACAGAAAGACCCAGACCCGAGCCGGGCCCCCACTCCTGACCTGGTGC
 GAGGTGGAGGAGGAGCCAGCAGGAGGGGCCCACTGTGCCCCATCATCGTCCACTGCAGTGCAGGGA
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 CATCCTGAAGACCAGTCCAGCTCCGTGAGGACAGGGGCGCATGATCCAGACATGCGAGCAGTACCAG
 TTTGTGCCACCAGTCATGAGCCTCTACGAAAAGCAGCTGTCCACCAGTCCCAGAA

ACCGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238630 representing NM_001278239
 Red=Cloning site Green=Tags(s)

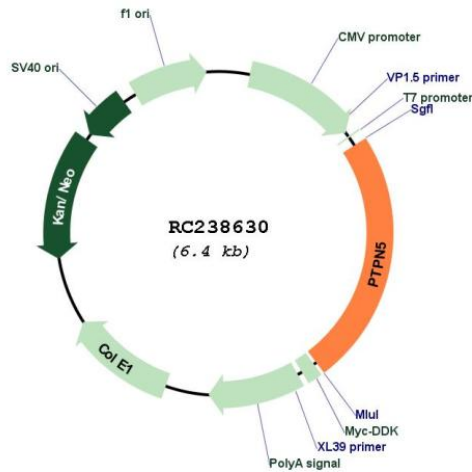
MCCSERLPLPQPPIVMEALDEAEGLQDSQREMPPPPPSPSDPAQKPPPRGAGSHSLTVRSSLCLFAAS
 QFLLLEPTAWLDSGTWGVPSLLLVLVSVGLVLTTLVHLLRTPPEPPTPLPPEDRRQSVSRQPSFTYSEW
 MEEKIEDDFLDLDPVETPVFDCVMDIKPEADPTSLTVKSMGLQERRGSNVSLTDMCTPGCNEEGFYL
 MSPREESAREYLLSASRVLQAEELHEKALDPFLLQAEFFEIPMNFVDPKEYDIPGLVRKNRYKTIPLNPH
 SRVCLTSPDPLSSYINANYIRGYGEEKVYIATQGPVSTVADFWRMWWQEHPTIIVMITNIEEMNE
 KCTEYWPEEQVAYDQVEITVQKVIHTEDYRLRLISLKSQTEERGLKHYWFTSWPDQKTPDRAPLLHLVR
 EVEEAAQQEGPHCAPIIVHCSAGIGRTGCFIATSICCQLRQEGVVDILKTTQRLRQDRGMIQTCEQYQ
 FVHHVMSLYEKQLSHQSPE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Plasmid Map:



ACCN: NM_001278239

ORF Size: 1527 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_001278239.2
RefSeq Size:	2972 bp
RefSeq ORF:	1530 bp
Locus ID:	84867
UniProt ID:	P54829
Cytogenetics:	11p15.1
Protein Families:	Druggable Genome, Phosphatase, Transmembrane
Protein Pathways:	MAPK signaling pathway
MW:	57.9 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]