

Product datasheet for **SC311110**

PTPN5 (NM_006906) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPN5 (NM_006906) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTPN5
Synonyms:	PTPSTEP; STEP; STEP61
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_006906 edited
 CGCAGACACACGCACTCGCGCGCATCTCCCGCCAGCCTGCCCGCTGCTCGCCGG
 CGCCCGGAGCCCGCTCTGGCCGCTGGATGATCTGAAGCTGCCCTCTCTCATTATA
 TCACCAGCTTGTCTTTTCTGAGAAAGCTTCTGCCCTGGAAGATGGCACCTTCCCAT
 CCAGACACCTTGGGAATGAATATGAGGGAGCCAGGAGTGAGAGAGAGAACCACGCTGCT
 GATGACTCCGAGGGAGGGGCCCTGGACATGTCTGCAGTGAGAGGCTACCGGGTCTCCC
 CAGCCGATAGTGATGGAGCACTGGACGAGGCTGAAGGGCTCCAGGACTCACAGAGAG
 ATGCCGCCACCCCTCTCCCTCGCCGCCCTCAGATCCAGCTCAGAAGCCACCACCTCGA
 GGCCTGGGAGCCACTCCCTCACTGTGAGGAGCAGCCTGTGCCTGTTTCGCTGCCTCACAG
 TTCCTGCTTGCCTGTGGGGTCTCTGGTTCAGCGGTTATGGCCACATCTGGTACAGAAC
 GCCACAACTCGTCTCCTCTTTGCTGACGCTCCTGAAACAGCTGGAACCCACGGCCTGG
 CTTGACTCTGGGACGTGGGGAGTCCCAGTCTGCTGCTGGTCTTTCTGTCCGTGGGCTG
 GTCCTCGTTACCACCCTGGTGTGGCACCTCCTGAGGACACCCCCAGAGCCACCCACCCA
 CTGCCCTGAGGACAGGCGCCAGTCAGTGAGCCGCCAGCCCTCCTTACCTACTCAGAG
 TGGATGGAGGAGAAGATCGAGGATGACTTCTGGACCTCGACCCGGTGCCCGAGACTCCT
 GTGTTTATTGTGTGATGGACATCAAGCCTGAGGCTGACCCACCTCACTCACCGTCAAG
 TCCATGGGTCTGCAGGAGAGGGGTTCCAATGTCTCCCTGACCCTGGACATGTGCACT
 CCGGGTGAACGAGGAGGGCTTTGGCTATCTCATGTCCACAGTGAGGAGTCCGCCCGC
 GAGTACCTGCTCAGCGCCTCCCGTGTCTCCAAGCAGAAAGCTTCATGAAAAGGCCCTGG
 ACCCTTCTGCTGCAGGCGGAATCTTTGAAATCCCATGAACTTTGTGGATCCGAAAG
 AGTACGACATCCCTGGGCTGGTGCAGAAAGCCGTTACAAAACATACTTCCCAACCTC
 ACAGCAGAGTGTCTGACCTCACCAGACCCTGACGACCCTCTGAGTTCCTACATCAATG
 CCAACTACATCCGGGGCTATGGTGGGAGGAGAAGGTGACATGCCACTCAGGGACCCA
 TCGTCAGCACGGTCGCCGACTTCTGGCGCATGGTGTGGCAGGAGCACAGCCCATATTG
 TCATGATACCAACATCGAGGAGATGAACGAGAAATGCACCGAGTATTGGCCGGAGGAGC
 AGGTGGCGTACGACGGTGTGAGATCACTGTGCAGAAAGTCATTACACGGAGGATTACC
 GGCTGCGACTCATCTCCCTCAAGAGTGGGACTGAGGAGCGAGGCCTGAAGCATTACTGGT
 TCACATCTGGCCGACCAGAAGACCCAGACGGGCCCCCCCCACTCCTGCACCTGGTGC
 GGGAGGTGGAGGAGCCAGCCAGCAGGAGGGGCCCACTGTGCCCCATCATCGTCCACT
 GCAGTGCAGGGATTGGGAGGACCGGCTGCTTCATTGCCACCAGCATCTGCTGCCAGCAGC
 TGCGGCAGGAGGGTGTAGTGGACATCCTGAAGACCACGTGCCAGCTCCGTGAGGACAGG
 GCGGCATGATCCAGACATGCGAGCAGTACCAGTTTGTGCACCACGTCATGAGCCTACG
 AAAAGCAGCTGTCCCACAGTCCCAGAATGACTGCGCTTCTCCTACAAGTTCTCTGGG
 CACTGCCAGCCTGAGTCTCGGCCCTCACCCAGGGCCCTGCCTCGGGTCTGGGCCTGCT
 CCCCCTTCTCCCTTTCAGTACGCTCCCTCTGTCTCTGTGAGCCTGGCCTGACCCCTA
 CCCTCCAGCATTGCTCTTCTACTGTACATATTGGGGAGTGGGGGCGAGGTCGGGAAGG
 GACATGCCAGGCCAGGCCTGGGGCCCCGGGGCTGACCCACACCACGCAGACCCCGGGT
 CCAGTTTTTAACGATGGTCCATCAATACCTGATCCAGAATGTTTCCGTGCTACACTTG
 GTCTCTGCAATGTGTTCTGTCTGTCCATCCATCTCTGCCCTGTACCGGACACTGT
 GTCTCCTCAGCCAGGAAGGGTAATGAGCTCCAGCCCTAAGCAACCGGACTTGCCTGCC
 TCGGCCTCACCCGCACTTCTCCAAAAGGCAGATGACGGGGAGTTAGGCATGGGGAGCTC
 CAGAAGGTCACCAGAGAGCTTTCAGCTGAGGGAGAGTTCTCTAGGTTGGAGTGGGCATCA
 CAGCCAGGGTGGCCTCTGGGTGTGAGTCTCAGGAGGGTGGCCAGCCTGTGAGGCAC
 TGGCAAGGTAGGGGGCAGATGGGGCATGGAGAACCAGAGGATCTAGGCCCTGTTGGGA
 GGGGAGGGGAGCTCAAGTTTGGGTGGGACTCAGCCAGATCTACGTGAGACATTTTTTC
 TGTGCTACTGTGGAAAGCCTTCCAGAAGTCTACTGCGTGTGCTCTGCGTGTGTTCC
 CATGTCCATGCGTGTGTTGAGAGCCATCAGGAGGGCATGCATGACTCTTTGGCAACATG
 TATTATCTTGGAGCCACGTGTTTTATTGCTGACTTTAAATATTTATCCACGGCAGACA
 GAGACATTTGGTGTCTTTTATAATTTCGCTCGTGGTCATTGAATAGAGCAATAAACGGAG
 CATTTTGGACAAAATAAA
 AAAAA

Restriction Sites:	Please inquire
ACCN:	NM_006906
Insert Size:	3000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_006906.1 , NP_008837.1
RefSeq Size:	3201 bp
RefSeq ORF:	1698 bp
Locus ID:	84867
UniProt ID:	P54829
Cytogenetics:	11p15.1
Protein Families:	Druggable Genome, Phosphatase, Transmembrane
Protein Pathways:	MAPK signaling pathway
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] Transcript Variant: This variant (1) and variant 2 encode the same longest isoform (a).