

## Product datasheet for **SC336647**

### PTPN5 (NM\_001278236) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PTPN5 (NM\_001278236) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** PTPN5  
**Synonyms:** PTPSTEP; STEP; STEP61  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC336647 representing NM\_001278236.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

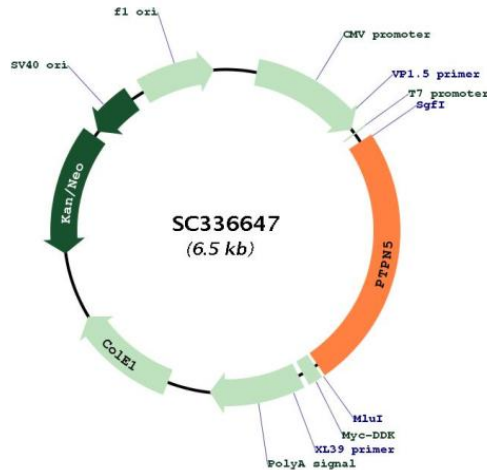
```
ATGAATTATGAGGGAGCCAGGAGTGAGAGAGAGAACCACGCTGCTGATGACTCCGAGGGAGGGGCCCTG
GACATGTGCTGCAGTGAGAGGCTACCGGGTCTCCCCAGCCGATAGTGATGGAGGCACTGGACGAGGCT
GAAGGGCTCCAGGACTCACAGAGAGAGATGCCGCCACCCCTCCTCCCTCGCCGCCCTCAGATCCAGCT
CAGAAGCCACCACCTCGAGGCGCTGGGAGCCACTCCCTACTGTCAGGAGCAGCCTGTGCCTGTTTCGCT
GCCTCACAGTTTCTGCTGGAACCCACGGCTGGCTTGACTCTGGGACGTGGGAGTCCCCAGTCTGCTG
CTGGTCTTTCTGTCCGTGGGCTGGTCTCGTTACCACCCTGGTGTGGCACCTCCTGAGGACACCCCA
GAGCCACCACCCCACTGCCCTGAGGACAGGCGCCAGTCAGTGAGCCGCCAGCCCTCCTTACCTAC
TCAGAGTGGATGGAGGAGAAGATCGAGGATGACTTCTGGACCTCGACCCGGTGGCCGAGACTCCTGTG
TTTGATTGTGTGATGGACATCAAGCCTGAGGCTGACCCACCTCACTCACCGTCAAGTCCATGGGTCTG
CAGGAGAGGAGGGGTTCCAATGTCTCCCTGACCCTGGACATGTGCACTCCGGGCTGCAACGAGGAGGGC
TTTGGCTATCTCATGTCCCACGTGAGGAGTCCGCCCGGAGTACCTGCTCAGCGCCTCCCGTGTCTC
CAAGCAGAAGAGCTTCATGAAAAGGCCCTGGACCCTTCTGCTGCAGGCGGAATTCTTTGAAATCCCC
ATGAACTTTGTGGATCCGAAAGAGTACGACATCCCTGGGCTGGTGCAGGAAAGACCCGTACAAAACCATA
CTTCCCAACCTCACAGCAGAGTGTGTCTGACCTCACCAGACCCGACGACCCCTGAGTTCCTACATC
AATGCCAACTACATCCGGGGCTATGGTGGGAGGAGAAGGTGTACATCGCCACTCAGGGACCCATCGTC
AGCACGGTCGCCGACTTCTGGCGCATGGTGTGGCAGGAGCACACGCCATCATTGTCATGATCACCAAC
ATCGAGGAGATGAACGAGAAATGCACCGAGTATTGGCCGGAGGAGCAGGTGGCGTACGACGGTGTGAG
ATCACTGTGCAGAAAGTCAATCACACGGAGGATTACCGGCTGCGACTCATCTCCCTCAAGAGTGGGACT
GAGGAGCGAGGCCTGAAGCATTACTGGTTCACATCCTGGCCCGACCCAGAGAGACCCAGACCCGGGCCCC
CCACTCCTGCACCTGGTGCAGGAGTGGAGGAGGAGCCAGCCAGCAGGAGGGGCCCCACTGTCCCCATC
ATCGTCCACTGCAGTGCAGGATTGGGAGGACCGGCTGCTTCATTGCCACCAGCATCTGCTGCCAGCAG
CTGCGGCAGGAGGTGTGGTGGACATCCTGAAGACCACGTGCCAGCTCCGTCAGGACAGGGGCGGCATG
ATCCAGACATGCGAGCAGTACCAGTTTGTGACCACGTCATGAGCCTCTACGAAAAGCAGCTGTCCCA
CAGTCCCCAGAATGA
```

**Restriction Sites:** SgfI-MluI



[View online »](#)

## Plasmid Map:



ACCN: NM\_001278236

Insert Size: 1602 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).

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](#)

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]  
Transcript Variant: This variant (4) differs in the 5' UTR and 5' coding region, compared to variant 1. The resulting isoform (b) lacks an internal segment, compared to isoform a. Variants 3 and 4 encode the same isoform b.