

Product datasheet for **SC336524**

PTPN5 (NM_001278239) Human Untagged Clone

Product data:

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



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Fully Sequenced ORF: >SC336524 representing NM_001278239.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTGCTGCAGTGAGAGGCTACCGGGTCTCCCCAGCCGATAGTGATGGAGGCACTGGACGAGGCTGAA
GGGTCCCAGGACTCAGAGAGAGATGCCGCCACCCCTCCTCCCTCGCCGCCCTCAGATCCAGCTCAG
AAGCCACCACCTCGAGGGCTGGGAGCCACTCCCTCACTGTCAGGAGCAGCCTGTGCCTGTTGCTGCC
TCACAGTTCCTGCTGGAACCCACGGCTGGCTTACTCTGGGACGTGGGAGTCCCCAGTCTGCTGCTG
GTCTTTCTGTCGGTGGGCTGGTCTCGTTACCACCCTGGTGTGGCACCTCTGAGGACACCCCCAGAG
CCACCCACCCACTGCCCTGAGGACAGGCGCCAGTCACTGAGCCGCCAGCCCTCTTACCTACTCA
GAGTGGATGGAGGAGAAGATCGAGGATGACTTCTGGACCTCGACCCGGTCCCGAGACTCTGTGTTT
GATTGTGTGATGGACATCAAGCCTGAGGCTGACCCACCTCACTACCGTCAAGTCCATGGGCTGCAG
GAGAGGAGGGTTCCAATGTCTCCCTGACCTGGACATGTGCACTCCGGGCTGCAACGAGGAGGGCTTT
GGCTATCTCATGTCCCGCTGAGGAGTCCGCCGCGAGTACCTGCTCAGCGCCTCCCGTGTCTCCAA
GAGAAGAGCTTCATGAAAAGGCCCTGGACCCTTCTGCTGCAGCGGAATCTTTGAAATCCCCATG
AACTTTGTGGATCCGAAAGAGTACGACATCCCTGGGCTGGTGGGAAAGAACCCGTACAAAACCACTT
CCCAACCCCTCACAGCAGAGTGTGTCTGACCTCACCAGACCCTGACGACCCTCTGAGTTCTCATCAAT
GCCAACTACATCCGGGGCTATGGTGGGGAGGAGAAGGTGTACATCGCCACTCAGGGACCCATCGTCAGC
ACGGTCGCCGACTTCTGGCGCATGGTGTGGCAGGAGCACACGCCCATCATTGTCTATGATCACCAACATC
GAGGAGATGAACGAGAAATGCACCGAGTATTGGCCGGAGGAGCAGGTGGCGTACGACGGTGTGAGATC
ACTGTGCAGAAAGTCAATCACACGGAGGATTACCGGCTGCGACTCATCTCCCTCAAGAGTGGGACTGAG
GAGCGAGGCTGAAGCATTACTGGTTCACATCCTGGCCCGACCAGAAGACCCAGACCGGGCCCCCA
CTCTGCACCTGGTGGCGGAGGTGGAGGAGCCAGCCAGCAGGAGGGGCCCACTGTGCCCCATCATC
GTCCACTGCAGTGCAGGGATTGGGAGGACCGGCTGCTTATTGCCACCAGCATCTGCTGCCAGCAGCTG
CGGCAGGAGGGTGTGGTGGACATCCTGAAGACCAGTGCAGCTCCGTCAGGACAGGGGGCGCATGATC
CAGACATGCGAGCAGTACCAGTTTGTGCCACCAGTCTAGCCTCTACGAAAAGCAGCTGTCCACCAG
TCCCCAGAATGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
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- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001278239
- Insert Size:** 1530 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:	<u>NM_001278239.1</u>
RefSeq Size:	2972 bp
RefSeq ORF:	1530 bp
Locus ID:	84867
UniProt ID:	<u>P54829</u>
Cytogenetics:	11p15.1
Protein Families:	Druggable Genome, Phosphatase, Transmembrane
Protein Pathways:	MAPK signaling pathway
MW:	57.5 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (6) lacks an internal exon in the 5' region which causes translation initiation at a downstream start codon, and also has an alternate splice site in the 5' coding region, compared to variant 1. The resulting isoform (d) has a shorter N-terminus and lacks an internal segment, compared to isoform a.</p>