

## Product datasheet for **RC238809**

### **PTPN5 (NM\_001278238) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PTPN5 (NM_001278238) 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



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**ORF Nucleotide Sequence:**

>RC238809 representing NM\_001278238  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGCTGCAGTGAGAGGCTACCGGTCTCCCCAGCCGATAGTGATGGAGGCACTGGACGAGGCTGAAG  
 GGCTCCAGGACTCACAGAGAGAGATGCCGCCACCCCTCCTCCCTCGCCGCCCTCAGATCCAGCTCAGAA  
 GCCACCACCTCGAGGCGCTGGGAGCCACTCCCTCACTGTCAGGAGCAGCCTGTGCCTGTTGCTGCCCTCA  
 CAGTTCCTGCTTGCCTGTGGGTGCTCTGGTTCAGCGGTTATGGCCACATCTGGTCACAGAACGCCACAA  
 ACCTCGTCTCCTTTGCTGACGCTCCTGAAACAGCTGGAACCCACGGCCTGGCTTGACTCTGGGACGTG  
 GGGAGTCCCAGTCTGCTGCTGGTCTTTCTGTCCGTGGGCTGGTCTCGTTACCACCCTGGTGTGGCAC  
 CTCTGAGGACACCCAGAGCCACCCACCCACTGCCCCCTGAGGACAGGCGCCAGTCACTGAGCCGCC  
 AGCCCTCCTTACCTACTCAGAGTGGATGGAGGAGAAGATCGAGGATGACTTCTGGACCTCGACCCGGT  
 GCCCGAGACTCCTGTGTTGATTGTGTGATGGACATCAAGCCTGAGGCTGACCCACCTCACTCACCGTC  
 AAGTCCATGGGTCTGCAGGAGAGAGGGGTTCCAATGTCTCCCTGACCCTGGACATGTGCACTCCGGGT  
 GCAACGAGGAGGGCTTTGGCTATCTCATGTCCCCACGTGAGGAGTCCGCCCGGAGTACCTGCTCAGCGC  
 CTCCCGTGTCTCCAAGCAGAAGAGCTTCATGAAAAGGCCCTGGACCTTTCTGCTGCAGGCGGAATTC  
 TTTGAAATCCCATGAATTTGTGGATCCGAAAGAGTACGACATCCCTGGGCTGGTGCAGGAAACCGGT  
 ACAAACCATACTTCCCAACCCACAGCAGAGTGTGTCTGACCTACCAGACCTGACGACCTCTGAG  
 TTCCTACATCAATGCCAACTACATCCGGGGCTATGGTGGGAGGAGAAGGTGTACATCGCCACTCAGGGA  
 CCCATCGTCAGCACGGTCCGCGACTTCTGGCGCATGGTGTGGCAGGAGCACACGCCATCATTTGCATGA  
 TCACCAACATCGAGGAGATGAACGAGAAATGCACCGAGTATTGGCCGGAGGAGCAGGTGGCGTACGACGG  
 TGTTGAGACTCACTGTGCAGAAAGTCATTACACGGAGGATTACCGGCTGCGACTCATCTCCCTCAAGAGT  
 GGGACTGAGGAGCGAGGCTGAAGCATTACTGGTTCACATCCTGGCCCGACCAGAAGACCCAGACCGGG  
 CCCCCCACTCCTGCACCTGGTGCAGGAGTGGAGGAGGAGCCAGCAGGAGGGGCCCACTGTGCCCC  
 CATCATCGTCCACTGCAGTGCAGGGATTGGGAGGACCGGCTGCTTATTGCCACCAGCATCTGCTGCCAG  
 CAGCTGCGGCAGGAGGTGTGGTGGACATCCTGAAGACCAGTGCAGCTCCGTGAGGACAGGGGCGGCA  
 TGATCCAGACATGCGAGCAGTACCAGTTTGTGCACCACGTATGAGCCTCTACGAAAAGCAGCTGTCCCA  
 CCAGTCCCAGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238809 representing NM\_001278238  
 Red=Cloning site Green=Tags(s)

MCCSERLPGLPQPIVMEALDEAEGLQDSQREMPPPPPSPSDPAQKPPPRGAGSHSLTVRSSLCLFAAS  
 QFLLACGVLWFSYGHVSNATNLVSSLLTLLKQLEPTAWLDSGTWGVPSLLL VFLSVGLVLTTLVWH  
 LLRTPEPPTPLPPEDRRQSVSRQPSFTYSEWMEEKIEDDFLDLDPVPETPVFDCVMDIKPEADPTSLTV  
 KSMGLQERRGNSVSLTDMCTPGCNEEGFYLMSPREESAREYLLSASRVLQAEELHEKALDPFLLQAEF  
 FEIPMNFVDPKEYDIPGLVRKNRYKTIIPNPHSRVCLTSPDPDDPLSSYINANYIRGYGGEEKVYIATQG  
 PIVSTVADFWRMVWQEHPTIIVMITNIEEMNEKCTEYWPEEQVAYDGVETVQKVIHTEDYRLRLISLKS  
 GTEERGLKHYWFTSWPDQKTPDRAPLLHLVREVEAAQQEGPHCAPIIVHCSAGIGRTGCFIATSIACCQ  
 QLRQEGVVDILKTTCLRQDRGGMIQTCEYQFVHHVMSLYEKQLSHQSPE

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI



<b>ACCN:</b>	NM_001278238
<b>ORF Size:</b>	1623 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001278238.2</a>
<b>RefSeq Size:</b>	3068 bp
<b>RefSeq ORF:</b>	1626 bp
<b>Locus ID:</b>	84867
<b>UniProt ID:</b>	<a href="#">P54829</a>
<b>Cytogenetics:</b>	11p15.1
<b>Protein Families:</b>	Druggable Genome, Phosphatase, Transmembrane
<b>Protein Pathways:</b>	MAPK signaling pathway
<b>MW:</b>	61.4 kDa
<b>Gene Summary:</b>	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]