

## Product datasheet for **MR223220**

### **Ptpn5 (NM\_013643) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ptpn5 (NM_013643) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ptpn5
Synonyms:	Step
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR223220 representing NM\_013643  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTGCTGTAGTGAGAGGCTGTTGGGTCTCCCCAGCCGGTAGAGATGGAAGCACCGGACGAGGCCGAAG  
 GACTCCCCAGCAAGCAGAAAGAGATGCCACCACCCCGCCACCCTCACCGCCTCTGAGCCAGCTCAGAA  
 GCTGCCACCTCAAGGCGCTGGGAGCCACTCCCTCACCGTCAGAAGCAGCCTGTGCCTGTTTGCTGCCTCT  
 CAGTTCCTGCTTGCTGTGGGTGCTCTGGCTCAGTGGCCATGGCCACTCCTGGCTGCAGAACACCACAG  
 ACCTCATCTCCTCCTCGCTCACAGTGTGAACCATCTGGGACCTGTGGCCTGGCTGGGTTCTGGGACCTG  
 GGGGATACCAAGTCTGCTGCTAGTCTCTGACTGTGAGCCTGGTCATCGTCACCACCCTGGTGTGGCAC  
 CTCCTCAAGGCACCCAGAGCCACTGCCCCACTGCCCCAGAGGACAGGCGTCAATCAGTGAGCCGGC  
 AGCCTTCCTTACCTACTCAGAGTGGATGGAGGAGAAGGTAGAGGATGACTTCTGGACCTGGACCGGT  
 GCCCGAGACACCTGTGTTTGACTGTGTGATGGACATCAAGCCTGAGACTGATCCTGCCTCATTGACTGTC  
 AAGTCCATGGGTCTACAGGAGAGGAGAGATCCAATGTCTCCTTGACCCTGGACATGTGTACTCCTGGCT  
 GCAATGAGGAGGGCTTCGGCTACCTGGTGTCTCCACGAGAAGAGTCAGCCATGAGTATCTGCTCAGCGC  
 CTCCCGTGTCTCCGGGCAGAAGAGCTACATGAAAAGGCTCTGGACCCTTTCTTGCTGCAGGCGGAATTC  
 TTTGAAATCCCATGAACCTTTGTGGATCCAAAAGAGTATGACATCCCAGGGCTGGTGCAGGAAGATCGGT  
 ACAAACCATCCTTCCCAATCCTCACAGCAGGGTACGTCTGACGTACCAGACCTGAAGATCCTCTGAG  
 TTCCTACATCAATGCCAACTACATCCGGGGCTACAGTGGGAGGAGAAGGTGTACATCGCCACGCAGGGA  
 CCCATCGTCAGCACTGTGGCCGACTTTTGGCGCATGGTGTGGCAGGAGCGCACACCCATCATCGTCATGA  
 TCACCAACATCGAGGAGATGAACGAGAAGTGCACAGAATACTGGCCAGAAGAGCAGGTGGTCCATGACGG  
 CGTGGAGATCACCGTGCAGAAAGTCAACACAGGAGGACTACCGCTGCGACTCATCTCCCTCAGGAGA  
 GGGACTGAAGAGCGAAGCTTGAAGCATTACTGGTTCACATCCTGGCCTGACCAGAAGACCCCGACCGGG  
 CTCCCCACTCCTGCACCTGGTACGGGAAGTGGAGGAGGCAGCCCAACAAGAGGGACCCCATTTGTTCCC  
 AATCATCGTTCAGTGCAGTGCAGGGATTGGGAGAACTGGCTGCTTATTGCCACCAGCATCTGCTGCCAG  
 CAGCTGCGACGTGAGGGCGTGGTGGACATCCTGAAGACCAGTGCAGCTCCGTGAGGACAGGGGTGGCA  
 TGATCCAGACATGCGAACAGTACCAGTTTGTGCACCACGCCATGAGCCTCTATGAGAAGCAGCTGTCCCT  
 CCAGTCTCAGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR223220 representing NM\_013643  
 Red=Cloning site Green=Tags(s)

MCCSERLLGLPQPVEMEAPDEAEGLPSKQKEMPPPPPPSPSEPAQKLPPQGAGSHSLTVRSSLCLFAAS  
 QFLLACGVLWLSGHGHSWLQNTTDLISSSLTVLNHLGPVAVLWLSGTWGIPLLLVSLTVSLVIVITTLVWH  
 LLKAPPEPPAPLPPEDRRQSVSRQPSFTYSEWMEEKVEDDFLDLDAVPETPVFDCVMDIKPETDPASLTV  
 KSMGLQERRGSNVSLTDMCTPGCNEEGFYLVS PREESAHEYLLSASRVLR AEELHEKALDPFLLQAEF  
 FEIPMNFVDPKEYDIPGLVRKNRYKTIILPNPHSRVRLTSPDPEDPLSSYINANYIRGYSGEEKVVIATQG  
 PIVSTVADFWRMVWQERTPIIIVMITNIEEMNEKTEYWPEEQVVHDGVEITVQKVIHTEDYRLRLISLRR  
 GTEERSLKHYWFTSWPDQKTPDRAPPLHLVREVEEAQQEGPHCSPIIVHCSAGIGRTGCFIATSIACCQ  
 QLRREGVVDILKTTCLRQDRGMIQTCEYQFVHHAMSLYEKQLSLQSSE

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9030\\_b07.zip](https://cdn.origene.com/chromatograms/mm9030_b07.zip)

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_013643

ORF Size: 1623 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:
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\\_013643.2](#), [NP\\_038671.2](#)

RefSeq Size: 3134 bp

RefSeq ORF: 1626 bp

Locus ID: 19259

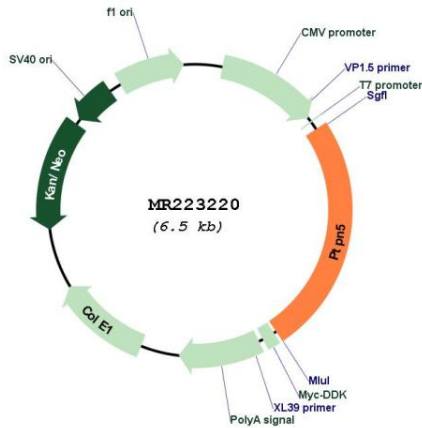
UniProt ID: [P54830](#)

**Cytogenetics:** 7 30.7 cM

**MW:** 61.3 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]

**Product images:**



Circular map for MR223220