

Product datasheet for **MR208630**

Ptpn5 (NM_001163565) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptpn5 (NM_001163565) 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)



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ORF Nucleotide Sequence:

>MR208630 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGCTGTAGTGAGAGGCTGTTGGGTCTCCCCAGCCGGTAGAGATGGAAGCACCGGACGAGGCCGAAG
 GACTCCCCAGCAAGCAGAAAGAGATGCCACCACCCCGCCACCCTCACCGCCTCTGAGCCAGCTCAGAA
 GCTGCCACCTCAAGGCGCTGGGAGCCACTCCCTCACCGTCAGAAGCAGCCTGTGCCTGTTTGCTGCCTCT
 CAGTTCCTGCTTGCTGTGGGTGCTCTGGCTCAGTGGCCATGGCCACTCCTGGCTGCAGAACACCACAG
 ACCTCATCTCCTCCTCGCTCACAGTGTGAACCATCTGGGACCTGTGGCCTGGCTGGGTTCTGGGACCTG
 GGGGATACCAAGTCTGCTGCTAGTCTCTGACTGTGAGCCTGGTCATCGTCACCACCCTGGTGTGGCAC
 CTCCTCAAGGCACCCAGAGCCACTGCCCACTGCCCCAGAGGACAGGCGTCAATCAGTGAGCCGGC
 AGCCTTCCTTACCTACTCAGAGTGGATGGAGGAGAAGGTAGAGGATGACTTCTGGACCTGGACCGGT
 GCCCGAGACACCTGTGTTTGACTGTGTGATGGACATCAAGCCTGAGACTGATCCTGCCTCATTGACTGTC
 AAGTCCATGGGTCTACAGGAGAGGAGAGGATCCAATGTCTCCTTGACCCTGGACATGTGTACTCCTGGCT
 GCAATGAGGAGGGCTTCGGCTACCTGGTGTCTCCACGAGAAGAGTCAGCCATGAGTATCTGCTCAGCGC
 CTCCCGTGTCTCCGGGCAGAAGAGCTACATGAAAAGGCTCTGGACCCTTTCTTGCTGCAGGCGGAATTC
 TTTGAAATCCCATGAACCTTTGTGGATCCAAAAGAGTATGACATCCCAGGGCTGGTGCAGGAAGATCGGT
 ACAAACCATCCTTCCCAATCCTCACAGCAGGGTACGTCTGACGTACCAGACCCTGAAGATCCTCTGAG
 TTCCTACATCAATGCCAACTACATCCGGGGCTACAGTGGGAGGAGAAGGTGTACATCGCCACGCAGGGA
 CCCATCGTCAGCACTGTGGCCGACTTTTGGCGCATGGTGTGGCAGGAGCGCACACCCATCATCGTCATGA
 TCACCAACATCGAGGAGATGAACGAGAAGTGCACAGAATACTGGCCAGAAGAGCAGGTGGTCCATGACGG
 CGTGGAGATCACCGTGCAGAAAGTCATCCACACGGAGGACTACCGGCTTCGACTCATCTCCCTCAGGAGA
 GGGACTGAAGAGCGAAGCTTGAAGCATTACTGGTTCACATCCTGGCCTGACCAGAAGACCCCGACCGGG
 CTCCCCACTCCTGCACCTGGTACGGGAAGTGGAGGAGGCAGCCCAACAAGAGGGACCCCATTTGTTCCCC
 AATCATCGTTCACTGCAGTGCAGGGATTGGGAGAAGTGGCTGCTTATTGCCACCAGCATCTGCTGCCAG
 CAGCTGCGACGTGAGGGCGTGGTGGACATCCTGAAGACCAGTGCAGCTCCGTGAGGACAGGGGTGGCA
 TGATCCAGACATGCGAACAGTACCAGTTTGTGCACCACGCCATGAGCCTCTATGAGAAGCAGCTGTCCCT
 CCAGTCTCAGAG

**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence:

>MR208630 protein sequence
 Red=Cloning site Green=Tags(s)

MCCSERLLGLPQPVEMEAPDEAEGLPSKQKEMPPPPPPSPSEPAQKLPPQGAGSHSLTVRSSLCLFAAS
 QFLLACGVLWLSGHGHSWLQNTTDLISSSLTVLNHLGPVAWLGSWTGIPSLLLVSLTVSLVIVITTLVWH
 LLKAPPEPPAPLPPEDRRQSVSRQPSFTYSEWMEEKVEDDFLDLDAVPETPVFDCVMDIKPETDPASLTV
 KSMGLQERRGSNVSLTDMCTPGCNEEGFYLVS PREESAHEYLLSASRVLR AEELHEKALDPFLLQAEF
 FEIPMNFVDPKEYDIPGLVRKNRYKTI LPNPHSRVRLTSPDPEDPLSSYINANYIRGYSGEEKVVIATQG
 PIVSTVADFWRMVWQERTPIIIVMITNIEEMNEKTEYWPEEQVVHDGVEITVQKVIHTEDYRLRLISLRR
 GTEERSLKHYWFTSWPDQKTPDRAPLLHLVREVEEAQQEGPHCSPIIVHCSAGIGRTGCFIATSIACCQ
 QLRREGVVDILKTTCLRQDRGMIQTCEYQFVHHAMSLYEKQLSLQSSE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001163565

ORF Size: 1626 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_001163565.1](#), [NP_001157037.1](#)

RefSeq Size: 3049 bp

RefSeq ORF: 1626 bp

Locus ID: 19259

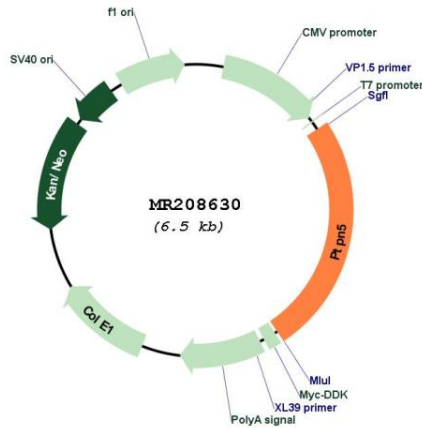
UniProt ID: [P54830](#)

Cytogenetics: 7 30.7 cM

MW: 60.8 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 MR208630