

Product datasheet for **RC217419**

PTPN5 (NM_001039970) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPN5 (NM_001039970) Human Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>RC217419 representing NM_001039970
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAATTATGAGGAGCCAGGAGTGAGAGAGAGAACCACGCTGCTGATGACTCCGAGGGAGGGCCCTGG
 ACATGTGCTGCAGTGAGAGGCTACCGGGTCTCCCCAGCCGATAGTGATGGAGGCACTGGACGAGGCTGA
 AGGGCTCCAGGACTCACAGAGAGAGATGCCGCCACCCCTCCTCCCTCGCCGCCCTCAGATCCAGCTCAG
 AAGCCACCACCTCGAGGCGCTGGGAGCCACTCCCTCACTGTCAGGAGCAGCCTGTGCCTGTTTCGCTGCCT
 CACAGTTCCTGCTGGAACCCACGGCCTGGCTTGACTCTGGGACGTGGGGAGTCCCAGTCTGCTGCTGGT
 CTTTCTGTCGGTGGCCCTGGTCTCGTTACCACCCTGGTGTGGCACCTCCTGAGGACACCCCCAGAGCCA
 CCCACCCACTGCCCCCTGAGGACAGGCGCCAGTCAGTGAGCCGCCAGCCCTCCTCACCTACTCAGAGT
 GGATGGAGGAGAAGATCGAGGATGACTTCTGGACCTCGACCCGGTGCCCGAGACTCCTGTGTTGATTG
 TGTGATGGACATCAAGCCTGAGGCTGACCCACCTCACTACCGTCAAGTCCATGGGTCTGCAGGAGAGG
 AGGGGTTCCAATGTCTCCCTGACCTGGACATGTGCACTCCGGGCTGCAACGAGGAGGGCTTTGGCTATC
 TCATGTCCCCACGTGAGGAGTCCGCCCGAGTACCTGCTCAGCGCCTCCCGTGTCTCCAAGCAGAAGA
 GCTTATGAAAAGGCCCTGGACCCTTCTGCTGCAGGCGGAATTCCTTGAATCCCCATGAACTTTGTG
 GATCCGAAAGAGTACGACATCCCTGGGCTGGTGCAGGGAAGAACCGGTACAAAACCTACTTCCAACCCCTC
 ACAGCAGAGTGTGCTGACCTCACAGACCCTGACGACCTCTGAGTTCCTACATCAATGCCAATACAT
 CCGGGGCTATGGTGGGAGGAGAAGGTGTACATCGCCACTCAGGGACCCATCGTCAGCACGGTCCGCCGAC
 TTCTGGCGCATGGTGTGGCAGGAGCACAGCCCATCATTGTGATGATACCAACATCGAGGAGATGAACG
 AGAAATGCACCGAGTATTGGCCGGAGGAGCAGGTGGCGTACGACGGTGTGAGATCACTGTCAGAAAGT
 CATTACACGGAGGATTACCGGCTGCGACTCATCTCCCTCAAGAGTGGGACTGAGGAGCGAGGCCCTGAAG
 CATTACTGGTTCACATCCTGGCCCGACCAAGACCCAGACCGGGCCCCCACTCCTGCACCTGGTGC
 GGGAGGTGGAGGAGGAGCCAGCAGGAGGGGCCCACTGTGCCCCATCATCGTCCACTGCAGTGCAGG
 GATTGGGAGGACCGGCTGCTTCATTGCCACCAGCATCTGCTGCCAGCAGCTGCGGAGGAGGGTGTGGT
 GACATCCTGAAGACCAGTGCAGCTCCGTGAGGACAGGGGCGGCATGATCCAGACATGCGAGCAGTACC
 AGTTTGTGACCACGTCATGAGCCTCTACGAAAAGCAGTGTCCACCAGTCCCCAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC217419 representing NM_001039970
 Red=Cloning site Green=Tags(s)

MNYEGARSERENHAADDSEGGALDMCCSERLPGLPQPIVMEALDEAEGLQDSQREMPPPPPSPSPDPAQ
 KPPPRGAGSHSLTYRSSLCLFAASQFLLEPTAWLDSGTWGVPSLLLVLVSVGLVLTTLVWHLRTPPEP
 PTPLPPEDRRQSVSRQPSFTYSEWEEKIEDDFLDLDPVETPVFDCVMDIKPEADPTSLTVKSMGLQER
 RGSNVSLTDMCTPGCNEEGFGLMSPREESAREYLLSASRVLQAEELHEKALDPFLLQAEFFEIPMNFV
 DPKEYDIPGLVRKNRYKILPNPHSRVCLTSPDPDDPLSSYINANYIRGYGEEKVYIATQGPIVSTVAD
 FWRMVWQEHTPIIVMITNIEEMNEKCTEYWPVEEQVAYDGVETVQKVIHTEDYRLRLISLKSGETEERGLK
 HYWFTSWPDQKTPDRAPPLHLVREVEAAQEGPHCAPIVHCSAGIGRTGCFIATSICCCQLRQEGV
 DILKTTCCQLRQDRGGMIQTCEQYQFVHHVMSLYEKQLSHQSPE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

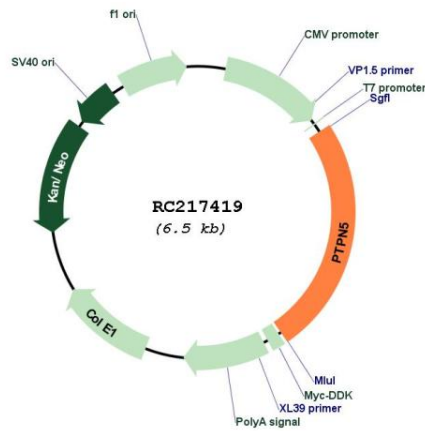
https://cdn.origene.com/chromatograms/mk8065_h09.zip

Restriction Sites:

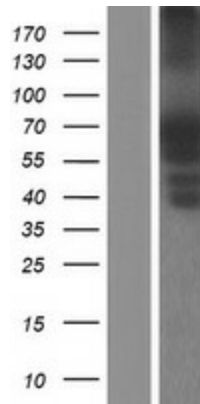
Sgfl-MluI

Protein Families: Druggable Genome, Phosphatase, Transmembrane
Protein Pathways: MAPK signaling pathway
MW: 59.9 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 RC217419



Western blot validation of overexpression lysate (Cat# [LY421867]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217419 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).