

Product datasheet for **RR202651**

Ptpn5 (NM_019253) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ptpn5 (NM_019253) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ptpn5
Synonyms: STEP
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR202651 representing NM_019253
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGAGAAGGTAGAGGATGACTTTCTGGACCTGGACGCAGTGCCGGAGACACCCGTGTTTGACTGTG
TGATGGACATCAAGCCTGAGGCTGATCCCACCTCGTTGACTGTCAAGTCCATGGGTCTGCAGGAGAGGAG
GGGCTCCAATGTCTCCTTGACCCTGGACATGTGTACTCCTGGCTGCAATGAGGAGGGCTTTGGCTACCTG
GTGTCACCCACGAGAGGAGTCAGCCCATGAATACCTGCTCAGTGCCTCCCGTGTCCCTCCGGGCAGAGGAGC
TGCACGAAAAGGCCCTGGACCCTTTCTTGTCTGACGGCGGAATCTTTGAAATCCCATGAACCTTTGTGGA
TCCAAAAGAATATGACATCCCAGGGCTGGTACGGAAGAATCGGTACAAAACCATCCTTCCCAATCCTCAC
AGCAGGGTACGTCGACGTCACCAGACCCTGAAGATCCTCTGAGTTTCTACATCAATGCCAACTATATCC
GGGGCTACAATGGGGAGGAGAAGGTGTACATCGCCACCCAGGGACCCATCGTCAGCACTGTGGTCGACTT
CTGGCGCATGGTGTGGCAGGAGCGCACACCCATCATCGTCATGATCACCAACATCGAGGAGATGAACGAG
AAGTGCACGGAATATTGGCCAGAAGAGCAGGTCGTCCACGATGGCGTAGAGTCACTGTGCAGAAAGTCA
TCCACACAGAGGACTACCGGCTGCGACTTATCTCCCTCAGGAGAGGGACTGAAGAGAGAGGCTTGAAGCA
TTACTGGTTCACATCCTGGCCTGACCAGAAGACCCCGACCGGGCACCCCACTCCTGCACCTGGTACGG
GAGGTGGAGGAGGAGCCAGCAAGAGGGACCCCACTGTTCCCGGATCATTGTTCACTGCAGTGCAGGGA
TTGGGAGAACCGGTGCTTCATCGCCACCAGCATCTGCTGCCAGCAGCTGCGACGTGAGGGCGTGGTAGA
CATCCTAAAGACCAGTGCCAGCTCCGTGAGGACAGGGCGGCATGATCCAAACATGCGAACAGTATCAG
TTTGTGCCACCACCCATGAGCCTCTATGAGAAGCAGCTATCCCTCCAGTCTCAGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR202651 representing NM_019253
Red=Cloning site Green=Tags(s)

MEEKVEDDFLDLDAVPETPVFDCVMDIKPEADPTSLTVKSMGLQERRGSNVSLTLDMCTPGCNEEGFGL
 VSPREESAHEYLLSASRVLRAEELHEKALDPFLLQAEFFEIPMNFVDPKEYDIPGLVRKNRYKTIILPNPH
 SRVRLTSPDPEDPLSSYINANYIRGYNGEEKVYIATQGPVSTVDFWRMVWQERTPIIVMITNIEEMNE
 KCTEYWPEEQVVHDGVEITVQKVIHTEDYRLRLISLRRTGEERGLKHYWFTSWPDQKTPDRAPLLHLVR
 EVEEAAQQEGPHCSPIIVHCSAGIGRTGCFIATSIACCQLRREGVVDILKTTCLRQDRGMIQTCEYQ
 FVHHAMSLYEKQLSLQSSE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

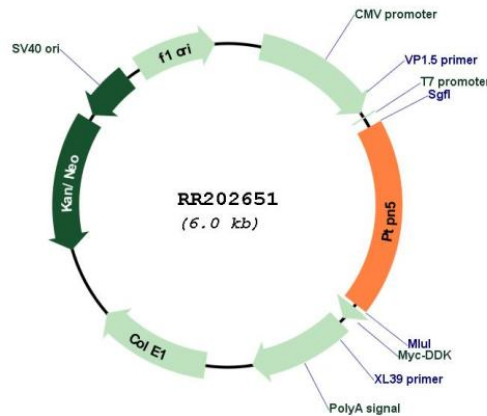
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_019253

ORF Size:	1107 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:	<ol style="list-style-type: none">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_019253.3 , NP_062126.3
RefSeq Size:	2815 bp
RefSeq ORF:	1110 bp
Locus ID:	29644
UniProt ID:	P35234
Cytogenetics:	1q22
MW:	42.4 kDa
Gene Summary:	a putative protein-tyrosine-phosphatase that is found enriched within the striatum [RGD, Feb 2006]