

Product datasheet for **RR216979**

Ptpn11 (NM_001177593) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptpn11 (NM_001177593) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ptpn11
Synonyms:	Shp2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR216979 representing NM_001177593
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACATCCCGGAGATGGTTTCACCCCAATATCACTGGTGTGGAGGCAGAGAATCTCCTGCTGACCCGAG
 GAGTCGATGGCAGTTTCTTAGCGAGGCCAGCAAGAGTAACCCTGGAGACTTCACTCTGTCTGTTAGAAG
 AAATGGAGCCGTTACCCACATCAAGATTAGAACAAGTGGGACTACTATGACCTCTATGGCGGGGAAAAG
 TTTGCCACCTTGCTGAACTGGTCCAGTATTACATGGAGCATCACGGGCAGCTGAAAAGAGAAGAATGGAG
 ATGTTATTGAGCTCAAGTACCCACTGAACTGTGCAGACCTACCTCTGAAAGGTGGTTCCACGGTCACTT
 GTCTGGAAAAGAAGCAGAGAAGCTGCTGACAGAGAAGGGGAAGCATGGCAGTTTCTCGTCCGGGAGAGC
 CAGAGCCACCCTGGGACTTCGCTCTCCGTCGCACTGGTGTGACAAAGGGGAGAGCAATGACAGCA
 AGTCCAAAGTGACCCATGTCATGATCCGCTGTCAGGAGCTGAAAATATGATGTTGGTGGAGGAGAGCGCTT
 TGACTCTTTGACAGACCTGGTGGAGCATTACAAGAAGAACCCATGGTGGAGACTGGGCACAGTCTCTG
 CAGCTCAAACAGCCCTCAACACAACCTCGTATTAAATGCCGCTGAAATCGAAAGCCGGGTTCCGGGAGTTAA
 GCAAGCTAGCCGAGACCACAGATAAAGTCAAACAGGGCTTTTGGGAAGAATTTGAGACTCTACAGCAACA
 GGAATGCAAACTTCTCTACAGCCGAAAAGAAGGACAGAGACAAGAAAATAAAAACAAAAATAGATACAAA
 AACATCCTGCCCTTTGATCATACCAGGGTTGCTCTGCACGATGGGGATCCCAACGAGCCAGTTTCTGATT
 ACATCAATGCCAATCATCATGCTGAATTTGAAACCAAGTGAACAATTCAAAACCCAAAAAGAGTTA
 CATTGCCACTCAAGGCTGCCTGCAGAACCGGTGAATGACTTCTGGCGGATGGTGTCCAGGAGAAGTCT
 CGAGTCATTGTCATGACCACAAAGGAAGTGGAGAGAGGGAAGCAAGTGTGCAAGTACTGGCCTGATG
 AGTGTGCACTCAAAGAGTATGGCGTCATCGGTGTGAGGAACGTGAGAGAAAGTCTGCGCATGACTACAC
 CTTACGAGAACTCAAACCTCTAAGGTCCGACAAGCTCTACTCCAGGAAAACACAGAGAGAACCCTCTGG
 CAGTACCACTTTTCGACCTGGCCAGACCACGGTGTGCCTAGTGACCCTGGAGGTGTGCTGGACTTCTGG
 AGGAGGTCCACCACAAGCAGGAGAGCATCGTGGATGCAGGCCCTGCTGGTTCCTGCACTGCTGGGAT
 TGGCCGGACAGGAACGTTATTGTGATTGATATCCTTATTGACATCATCCGAGAGAAAGGTGGACTGT
 GACATCGACGTTCTAAAACATTACAGTGGTACGGTCCCAGAGGTGAGGGATGGTCCAGACAGAAGCAC
 AGTACCGGTTTCTACATGGCCGTCAGCACTACATAGAGACGCTGCAACGCAGGATCGAGGAGGAGCA
 GAAAAGCAAAAGGAAAGGACATGAATATACCAATATTAAGTATTCCTGGTGGACCAGACAAGTGGCGAT
 CAGAGTCCCTGCCACCTTGACCCCAAGCCACCTGTGCGGAAATGCGGGAGGACAGCGCTCGAGTCT
 ATGAGAACGTGGGCTCATGCAGCAGCAGAGGAGTTTCAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR216979 representing NM_001177593
 Red=Cloning site Green=Tags(s)

MTSRRWFHPNITGVEAENLLLTRGVDGSFLARPSKSNPGDFTLSVRRNGAVTHIKIQNTGDYYDLYGGEK
 FATLAELVQYYMEHHGQLKEKNGDVIELKYPLNCADPTSERWFHGHLSGKEAEKLLTEKGKHSFLVRES
 QSHPGDFVLSVRTGDDKESNDSKSKVTHVMIRCQELKYDVGGGERFDSLTDLVEHYKKNPMVETLGTVL
 QLKQPLNTRINAAEIESRVRELSKLAETTDKVKQGFWEFETLQQECKLLYSRKEGQRQENKNKNRYK
 NILPFDHTRVVLHDGDPNEPVSVDYINANIIMPEFETKCNNSKPKKSYIATQGCLQNTVNDVFRMVFQENS
 RVIVMTTKEVERGKSKCVKYPDECALKEYGVMRVRNVRESAAHDYTLRELKLSKVGQALLQGNTERTVW
 QYHFRTPDHGVPSPDPGGVLDLFLEEVHHKQESIVDAGPVVHCSAGIGRTGTFIVIDILIDIIREKGVDC
 DIDVPKTIQMVRSQRSQSGMVQTEAQYRFIYMAVQHYIETLQRRIEEEQKSKRKGHEYTNIKYSLVDQTS
 QSLPPTPTPPCAEMREDSARVYENVGLMQQQRFSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001177593

ORF Size: 1791 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_001177593.1](#), [NP_001171064.1](#)

RefSeq Size: 5538 bp

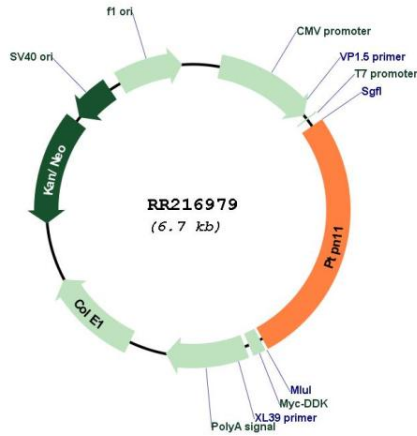
RefSeq ORF: 1794 bp

Locus ID: 25622

UniProt ID: [P41499](#)

Cytogenetics: 12q16
MW: 68.5 kDa
Gene Summary: catalyzes the tyrosine dephosphorylation of para-nitrophenylphosphate, nicotinic acetylcholine receptor, myelin basic protein, and other proteins [RGD, Feb 2006]

Product images:



Circular map for RR216979