

Product datasheet for **RR202064**

Ptpn11 (NM_013088) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptpn11 (NM_013088) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ptpn11
Synonyms:	Shp2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR202064 representing NM_013088
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACATCCCGGAGATGGTTTCACCCCAATATCACTGGTGTGGAGGCAGAGAATCTCCTGCTGACCCGAG
 GAGTCGATGGCAGTTTCTTAGCGAGGCCAGCAAGAGTAACCCTGGAGACTTCACTCTGTCTGTTAGAAG
 AAATGGAGCCGTTACCCACATCAAGATTAGAACAAGTGGGGACTACTATGACCTCTATGGCGGGGAAAAG
 TTTGCCACCTTGCTGAACTGGTCCAGTATTACATGGAGCATCACGGGCAGCTGAAAAGAGAAGAATGGAG
 ATGTTATTGAGCTCAAGTACCCACTGAACTGTGCAGACCCTACCTCTGAAAGGTGGTTCCACGGTCACTT
 GTCTGGAAAAGAAGCAGAGAAGCTGCTGACAGAGAAGGGGAAGCATGGCAGTTTCTCGTCCGGGAGAGC
 CAGAGCCACCCTGGGACTTCGTCTCTCCGTCCGCACTGGTGATGACAAAGGGGAGAGCAATGACAGCA
 AGTCCAAAGTGACCCATGTCATGATCCGCTGTCAGGAGCTGAAATATGATGTTGGTGGAGGAGAGCGCTT
 TGACTCTTTGACAGACCTGGTGGAGCATTACAAGAAGAACCCATGGTGGAGACTGGGCACAGTCTCTG
 CAGCTCAAACAGCCCTCAACACAACCTCGTATTAAATGCCGCTGAAATCGAAAGCCGGGTTCCGGGAGTTAA
 GCAAGCTAGCCGAGACCACAGATAAAGTCAAACAGGGCTTTTGGGAAGAATTTGAGACTCTACAGCAACA
 GGAATGCAAACTTCTCTACAGCCGAAAAGAAGGACAGAGACAAGAAAATAAAAACAAAAATAGATACAAA
 AACATCCTGCCCTTTGATCATACCAGGGTTGCTCTGCACGATGGGGATCCCAACGAGCCAGTTTCTGATT
 ACATCAATGCCAACATCATATGCCTGAATTTGAAACCAAGTGAACAATTCAAAACCCAAAAAGAGTTA
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 CGGACCTGGCCAGACCACGGTGTGCCTAGTGACCTGGAGGTGTGCTGGACTTCTGGAGGAGGTCCACC
 ACAAGCAGGAGAGCATCGTGGATGCAGGCCCTGCTGTTCACTGCAGTCTGGGATTGGCCGGACAGG
 AACGTTTATTGATTGATATCCTTATTGACATCATCCGAGAGAAAGGTGTGGACTGTGACATCGACGTT
 CCTAAAACCATTCAGATGGTACGGTCCCAGAGGTGAGGGATGGTCCAGACAGAAGCACAGTACCGGTTCA
 TCTACATGGCCGTCAGCACTACATAGAGACGCTGCAACGCAGGATCGAGGAGGAGCAGAAAAGCAAAG
 GAAAGGACATGAATATACCAATATTAAGTATCCCTGGTGGACCAGACAAGTGGCGATCAGAGTCCCTG
 CCACCTTGACCCCAACGCCACCCTGTGCGGAAATGCGGGAGGACAGCGCTCGAGTCTATGAGACGTGG
 GCCTCATGCAGCAGCAGAGGAGTTTCAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR202064 representing NM_013088
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MTSRRWFHPNITGVEAENLLLTRGVDGSFLARPSKSNPGDFTLSVRRNGAVTHIKIQNTGDYYDLVGGEK
 FATLAELVQYYMEHHGQLKEKNGDVIELKYPLNCADPTSERWFHGLSGKEAEKLLTEKGKHGSFLVRES
 QSHPGDFVLSVRTGDDKGESNDSKSKVTHVMIRQCQLKYDVGGERFDSLTDLVEHYKKNPMTLGTVL
 QLKQPLNTRINAAEIESRVRELSKLAETTDKVKQGFWEFETLQQQECKLLYSRKEGQRQENKNKNRYK
 NILPFDHTRVVLHDGPNPVSVDYINANIIMPEFETKCNNSKPKSYIATQGCLQNTVDFWRMVFQENS
 RVIVMTTKEVERGKSKVKYWPDECALKEYGVMRVRNVRESAAHDYTLRELKLSKVGQNTERTVWQYHF
 RTWPDHGVPSPGGVLDLFLVHHKQESIVDAGPVVVHCSAGIGRTGTFIVIDILIDIIREKGVDCDIDV
 PKTIQMVRSQRSGMVQTEAQYRFIYMAVQHYIETLQRRIEEEQKSKRKGHEYNIKYSLVDQTSQDQSPL
 PPCTPTPPCAEMREDSARVYENVGLMQQRSFR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

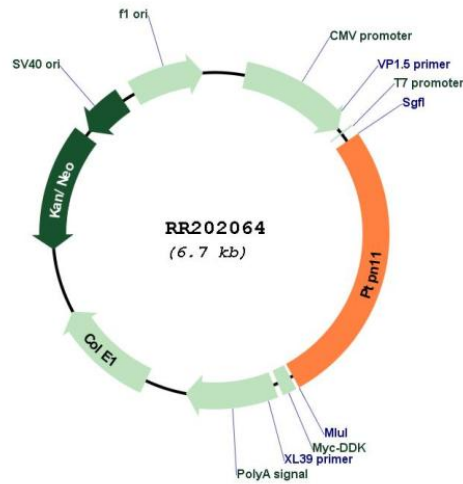
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_013088

ORF Size: 1779 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_013088.2 , NP_037220.2
RefSeq Size:	5526 bp
RefSeq ORF:	1782 bp
Locus ID:	25622
UniProt ID:	P41499
Cytogenetics:	12q16
MW:	68 kDa
Gene Summary:	catalyzes the tyrosine dephosphorylation of para-nitrophenylphosphate, nicotinic acetylcholine receptor, myelin basic protein, and other proteins [RGD, Feb 2006]