

Product datasheet for **RN202064**

Ptpn11 (NM_013088) Rat Untagged Clone

Product data:

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



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Fully Sequenced ORF: >RN202064 representing NM_013088
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACATCCCGGAGATGGTTTCACCCCAATATCACTGGTGTGGAGGCAGAGAATCTCCTGCTGACCCGAG
 GAGTCGATGGCAGTTTCTTAGCGAGGCCAGCAAGAGTAACCCTGGAGACTTCACTCTGTCTGTTAGAAG
 AAATGGAGCCGTTACCCACATCAAGATTAGAACAAGTGGGGACTACTATGACCTCTATGGCGGGAAAAAG
 TTTGCCACCTTGCTGAACTGGTCCAGTATTACATGGAGCATCACGGGCAGCTGAAAAGAGAAGAATGGAG
 ATGTTATTGAGCTCAAGTACCCACTGAACTGTGCAGACCTACCTCTGAAAGGTGGTTCCACGGTCACTT
 GTCTGGAAAAGAAGCAGAGAAGCTGCTGACAGAGAAGGGGAAGCATGGCAGTTTCTCGTCCGGGAGAGC
 CAGAGCCACCCTGGGACTTCGCTCTCCGTCGCACTGGTGTGACAAAGGGGAGAGCAATGACAGCA
 AGTCCAAAGTGACCCATGTCATGATCCGCTGTCAGGAGCTGAAATATGATGTTGGTGAGGAGAGCGCTT
 TGACTCTTTGACAGACCTGGTGGAGCATTACAAGAAGAACCCATGGTGGAGACTGGGCACAGTCTCG
 CAGCTCAAACAGCCCTCAACACAACCTCGTATTAAATGCCGCTGAAATCGAAAGCCGGGTTCCGGGAGTTAA
 GCAAGCTAGCCGAGACCACAGATAAAGTCAAACAGGGCTTTTGGGAAGAATTTGAGACTCTACAGCAACA
 GGAATGCAAACTTCTCTACAGCCGAAAAGAAGGACAGAGACAAGAAAATAAAAACAAAAATAGATACAAA
 AACATCCTGCCCTTTGATCATACCAGGGTTGCTCTGCACGATGGGGATCCCAACGAGCCAGTTTCTGATT
 ACATCAATGCCAACATCATATGCCTGAATTTGAAACCAAGTGAACAATTCAAACCCAAAAAGAGTTA
 CATTGCCACTCAAGGCTGCCTGCAGAACCGGTGAATGACTTCTGGCGGATGGTGTCCAGGAGAACTCT
 CGAGTCATTGTGATGACCACAAAGGAAGTGGAGAGAGGGGAAGAGCAAGTGTGCAAGTACTGGCCTGATG
 AGTGTGCACTCAAAGAGTATGGCGTCATGCGTGTGAGGAACGTGAGAGAAAGTGTGCGCATGACTACAC
 CTTACGAGAACTCAAACCTCTAAGGTCGAGACAAGGAAAACAGAGAGAACCCTCTGGCAGTACCCTTT
 CGGACCTGGCCAGACCACGGTGTGCCTAGTGACCTGGAGGTGTGCTGGACTTCTGGAGGAGGTCCACC
 ACAAGCAGGAGAGCATCGTGGATGCAGGCCCTGCTGTTCACTGCAGTGTGGATTGGCCGGACAGG
 AACGTTTATTGTGATTGATATCCTTATTGACATCATCCGAGAGAAAGGTGTGGACTGTGACATCGACGTT
 CCTAAAACCATTCAGATGGTACGGTCCCAGAGGTGAGGGATGGTCCAGACAGAAGCACAGTACCGGTTCA
 TCTACATGGCCGTCAGCACTACATAGAGACGCTGCAACGCAGGATCGAGGAGGAGCAGAAAAGCAAAG
 GAAAGGACATGAATATACCAATATTAAGTATTCCCTGGTGGACCAGACAAGTGGCGATCAGAGTCCCTG
 CCACCTTGACCCCAACGCCACCCTGTGCGGAAATGCGGGAGGACAGCGCTCGAGTCTATGAGACGTGG
 GCCTCATGCAGCAGCAGAGGAGTTTCAGATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_013088

Insert Size: 1782 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_013088.2](#), [NP_037220.2](#)

RefSeq Size: 5526 bp

RefSeq ORF: 1782 bp

Locus ID: 25622

UniProt ID: [P41499](#)

Cytogenetics: 12q16

Gene Summary: catalyzes the tyrosine dephosphorylation of para-nitrophenylphosphate, nicotinic acetylcholine receptor, myelin basic protein, and other proteins [RGD, Feb 2006]
Transcript Variant: This variant (2) uses an alternate in-frame splice site in the central coding region, compared to variant 1. The resulting isoform (2) lacks an internal 4-aa segment, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.