

Product datasheet for **MC219480**

Ptpn11 (NM_011202) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptpn11 (NM_011202) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ptpn11
Synonyms:	2700084A17Rik; AW536184; PTP1D; PTP2C; SAP-2; SH-PTP2; SH-PTP3; SHP-2; Shp2; Syp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC219480 representing NM_011202
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACATCGCGGAGATGGTTTCACCCCAACATCACTGGTGTGGAGGCAGAGAATCTCCTGCTGACCAGAG
 GAGTCGATGGCAGTTTTTTAGCAAGGCCAGTAAGAGTAACCCTGGAGACTTCACTCTGTCTGTTAGAAG
 AAATGGAGCTGTTACCCACATCAAGATTAGAACACTGGGGACTACTATGACCTCTATGGTGGGAGAAG
 TTTGCCACTTTGGCTGAACTGGTTCAGTATTACATGGAACACCATGGGCAGCTGAAAAGAGAAGAATGGAG
 ATGTTATCGAGCTCAAGTACCCGCTGAACTGTGCAGACCCTACCTCTGAAAGGTGGTTCCATGGTCACTT
 GTCTGGAAAAGAAGCAGAGAAGCTGCTGACGGAGAAGGGCAAGCATGGCAGCTTCTCGTTCGAGAGAGC
 CAGAGCCACCCCGAGACTTCGTCTCTCCGTGCGCACTGGTGACGACAAAGGGGAGAGCAACGACGGCA
 AGTCCAAAGTGACCCACGTCATGATCCGCTGTCAGGAGCTGAAAACGACGTTGGTGGGGGAGAGCGCTT
 TGACTCTCTGACAGACCTGGTGGAGCATTACAAGAAGAACCCCATGGTGGAGACGCTGGGCACAGTCTTG
 CAGCTCAAGCAGCCCTCAACACAACCTCGTATCAATGCTGCTGAAATTGAAAGCCGGGTTTCGAGAGTTAA
 GCAAGCTGGCTGAGACCACAGATAAAGTCAAGCAGGGCTTTTGGGAAGAGTTTGAGACGCTCCAGCAACA
 GGAATGCAAACTTCTCTATAGCCGAAAAGAAGGACAGAGACAAGAAAATAAAAACAAAAACAGATACAAA
 AACATCCTGCCCTTTGATCATACCAGGGTCTTCTGATGATGGGGATCCCAATGAGCCTGTTTCTGATT
 ACATTAATGCAACATCATATGCTGAGTTTGGAGACCAAGTCAACAATTCAAACCCAAAAAGAGTTA
 CATTGCCACTCAAGGCTGCCTGCAGAACCGGTGAATGACTTCTGGCGGATGGTGTCCAGGAGAACTCT
 CGAGTCATTGTCATGACCACAAAGGAAGTGGAGAGAGGGAAGAGCAAATGTGTCAAGTACTGGCCTGATG
 AGTATCGCTCAAAGAATACGGGGTCATGCGTGTAGGAACGTCAAAGAAAAGTCCCGCCCATGACTACAC
 TTTACGAGAGCTCAAACCTCTAAGGTGCGACAAGCTCTACTCCAGGGAAACACAGAGAGAACCGTCTGG
 CAGTACCACTTTTCGGACCTGGCCAGACCATGGCGTGCCTAGTGACCCTGGAGGTGTGCTGGACTTCTGG
 AGGAGGTCCACCACAAGCAGGAGAGCATCGTGGATGCAGGCCCTGTCGTGGTTCCTGACGCGCTGGGAT
 TGGCCGGACAGGAACCTTCAATTGTGATTGACATCCTTATTGACATCATTGAGAGAAAGGTGGACTGT
 GACATCGACGTTCTAAAACATTGAGATGGTGCCTCCAGAGGTCCGGGATGGTCCAGACAGAAGCAC
 AGTACCGGTTTATCTACATGGCTGTCCAGCACTACATAGAGACGCTGCAGCGCCGATCGAGGAGGAGCA
 GAAAAGCAAAAGAAAAGGACATGAATATACCAATATTAAGTATTCCTTGGTGGACCAGACAAGTGGTGT
 CAGAGTCCCTGCCACCCTGCACCCCAAGCCACCTGTGCAGAAATGAGGGAGGACAGCGCCCGAGTCT
 ATGAGAACGTGGCCTCATGCAGCAGCAGAGGAGTTTCAGAT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_011202
Insert Size: 1794 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_011202.3](#), [NP_035332.1](#)

RefSeq Size: 5628 bp

RefSeq ORF: 1794 bp

Locus ID: 19247

UniProt ID: [P35235](#)

Cytogenetics: 5 F

Gene Summary: Acts downstream of various receptor and cytoplasmic protein tyrosine kinases to participate in the signal transduction from the cell surface to the nucleus. Positively regulates MAPK signal transduction pathway. Dephosphorylates GAB1, ARHGAP35 and EGFR. Dephosphorylates ROCK2 at 'Tyr-722' resulting in stimulation of its RhoA binding activity. Dephosphorylates CDC73.[UniProtKB/Swiss-Prot Function]
 Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).