

Product datasheet for **MR225515**

Ptpn11 (NM_001109992) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptpn11 (NM_001109992) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ptpn11
Synonyms:	2700084A17Rik; AW536184; PTP1D; PTP2C; SAP-2; SH-PTP2; SH-PTP3; SHP-2; Shp2; Syp
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>MR225515 representing NM_001109992
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACATCGCGGAGATGGTTTCACCCCAACATCACTGGTGTGGAGGCAGAGAATCTCCTGCTGACCAGAG
 GAGTCGATGGCAGTTTTTTAGCAAGGCCAGTAAGAGTAACCCTGGAGACTTCACTCTGTCTGTTAGAAG
 AAATGGAGCTGTTACCCACATCAAGATTAGAACAAGTGGGGACTACTATGACCTCTATGGTGGGGAGAAG
 TTTGCCACTTTGGCTGAACTGGTTCAGTATTACATGGAACACCATGGGCAGCTGAAAGAGAAGAATGGAG
 ATGTTATCGAGCTCAAGTACCCGCTGAACTGTGCAGACCCACCTCTGAAAGGTGGTTCCATGGTCACTT
 GTCTGGAAAAGAAGCAGAGAAGCTGCTGACGGAGAAGGGCAAGCATGGCAGCTTCTCGTTCGAGAGAGC
 CAGAGCCACCCCGGAGACTTCGTCTCTCCGTGCGCACTGGTACGACAAAGGGGAGAGCAACGACGGCA
 AGTCCAAAGTGACCCACGTCATGATCCGCTGTCAGGAGCTGAAATACGACGTTGGTGGGGGAGAGCGCTT
 TGACTCTCTGACAGACCTGGTGGAGCATTACAAGAAGAACCCCATGGTGGAGACGCTGGGCACAGTCTG
 CAGCTCAAGCAGCCCTCAACACAACCTCGTATCAATGCTGCTGAAATTGAAAGCCGGGTTGAGAGTTAA
 GCAAGCTGGCTGAGACCACAGATAAAGTCAAGCAGGGCTTTTGGGAAGAGTTTGAGACGCTCCAGCAACA
 GGAATGCAAACTTCTCTATAGCCGAAAAGAAGGACAGAGACAAGAAAATAAAAACAAAAACAGATACAAA
 AACATCCTGCCCTTTGATCATACCAGGGTCTGTTGTCATGATGGGGATCCCAATGAGCCTGTTTCTGATT
 ACATTAATGCAACATCATCATGCTGAGTTTGGAGCAAGTGAACAATTTCAAACCCAAAAAGAGTTA
 CATTGCCACTCAAGGCTGCCTGCAGAACCGGTGAATGACTTCTGGCGGATGGTGTCCAGGAGAAGTCT
 CGAGTCATTGTGATGACCACAAAGGAAGTGGAGAGAGGGAAGCAAAATGTGTCAAGTACTGGCCTGATG
 AGTATGCGCTCAAAGAATACGGGGTTCATGCGTGTAGGAACGTCAAAGAAAGTCCCGCCCATGACTACAC
 TTTACGAGAGCTCAAACCTCTAAGGTTCGACAAGGAAAACACAGAGAGAACCCTGTCGGCAGTACCCTTT
 CGGACCTGGCCAGACCATGGCGTGCCTAGTGACCTGGAGGTGTGCTGGACTTCTGGAGGAGGTCCACC
 ACAAGCAGGAGAGCATCGTGGATGCAGGCCCTGCTGTTCACTGCAGCGCTGGGATTGGCCGGACAGG
 AACCTTCATTGTGATTGACATCCTTATTGACATCATTGAGAGAAAGGTGTGGACTGTGACATCGACGTT
 CCTAAAACCATTCAGATGGTGGGTCAGAGGTCGGGGATGGTCCAGACAGAAGCACAGTACCGGTTTA
 TCTACATGGCTGTCCAGCACTACATAGAGACGCTGCAGCGCCGGATCGAGGAGGAGCAGAAAAGCAAAG
 AAAAGGACATGAATATACCAATATTAAGTATTCTTGGTGGACCAGACAAGTGGTATCAGAGTCCCTG
 CCACCCTGCACCCCAACGCCACCCTGTGCAGAAATGAGGGAGGACAGCGCCGAGTCTATGAGACGTGG
 GCCTCATGCAGCAGCAGAGGAGTTTCAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225515 representing NM_001109992
 Red=Cloning site Green=Tags(s)

MTSRRWFHPNITGVEAENLLLTRGVDGSFLARPSKSNPGDFTLSVRRNGAVTHIKIQNTGDYYDLVGGEK
 FATLAELVQYYMEHHGQLKEKNGDVIELKYPLNCADPTSERWFHGLSGKEAEKLLTEKGKHSFLVRES
 QSHPGDFVLSVRTGDDKGESNDGKSKVTHVMIRCQELKYDVGGERFDSLTDLVEHYKKNPMTLGTVL
 QLKQPLNTRINAAEIESRVRELSKLAETTDKVKQGFWEFETLQQQECKLLYSRKEGQRQENKNKNRYK
 NILPFDHTRVVLHDGPNPVSVDYINANIIMPEFETKCNNSKPKKSYIATQGCLQNTVDFWRMVFQENS
 RVIVMTTKEVERGKSKVKYWPDEYALKEYGVMRVRNVKESAAHDYTLRELKLSKVGQNTERTVWQYHF
 RTWPDHGVSPDPGGVLDLFLVHVKQESIVDAGPVVVHCSAGIGRTGTFIVIDILIDIIREKGVDCDIDV
 PKTIQMVRSQRSGMVQTEAQYRFIYMAVQHYIETLQRRIEEEQKSKRKGHEYNIKYSLVDQTSGDQSPL
 PPCTPTPPCAEMREDSARVYENVGLMQQQRFR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

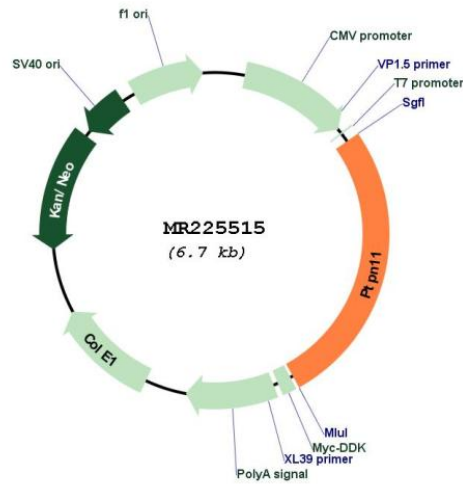
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001109992

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_001109992.1 , NP_001103462.1
RefSeq Size:	5616 bp
RefSeq ORF:	1782 bp
Locus ID:	19247
UniProt ID:	P35235
Cytogenetics:	5 F
MW:	68.5 kDa
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]