

Product datasheet for **MG225515**

Ptpn11 (NM_001109992) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptpn11 (NM_001109992) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ptpn11
Synonyms:	2700084A17Rik; AW536184; PTP1D; PTP2C; SAP-2; SH-PTP2; SH-PTP3; SHP-2; Shp2; Syp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG225515 representing NM_001109992
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACATCGCGGAGATGGTTTCACCCCAACATCACTGGTGTGGAGGCAGAGAATCTCCTGCTGACCAGAG
 GAGTCGATGGCAGTTTTTTAGCAAGGCCAGTAAGAGTAACCCTGGAGACTTCACCTGTCTGTTAGAAG
 AAATGGAGCTGTTACCCACATCAAGATTAGAACAAGTGGGACTACTATGACCTCTATGGTGGGAGAAG
 TTTGCCACTTTGGCTGAACTGGTTCAGTATTACATGGAACACCATGGGCAGCTGAAAGAGAAGAATGGAG
 ATGTTATCGAGCTCAAGTACCCGCTGAACTGTGCAGACCTACCTCTGAAAGGTGGTTCCATGGTCACTT
 GTCTGGAAAAGAAGCAGAGAAGCTGCTGACGGAGAAGGGCAAGCATGGCAGCTTCTCGTTCGAGAGAGC
 CAGAGCCACCCCGGAGACTTCGTCTCTCCGTGCGCACTGGTACGACAAAGGGGAGAGCAACGACGGCA
 AGTCCAAAGTGACCCACGTCATGATCCGCTGTCAGGAGCTGAAAACGACGTTGGTGGGGGAGAGCGCTT
 TGACTCTCTGACAGACCTGGTGGAGCATTACAAGAAGAACCCCATGGTGGAGACGCTGGGCACAGTCTG
 CAGCTCAAGCAGCCCTCAACACAACCTCGTATCAATGCTGCTGAAATTGAAAGCCGGTTCGAGAGTTAA
 GCAAGCTGGCTGAGACCACAGATAAAGTCAAGCAGGGCTTTTGGGAAGAGTTTGAGACGCTCCAGCAACA
 GGAATGCAAACTTCTCTATAGCCGAAAAGAAGGACAGAGACAAGAAAATAAAAACAAAAACAGATACAAA
 AACATCCTGCCCTTTGATCATACCAGGGTCTTCTGATGATGGGGATCCCAATGAGCCTGTTTCTGATT
 ACATTAATGCAACATCATCATGCTGAGTTTGGACCAAGTGAACAATTCCAAACCCAAAAAGAGTTA
 CATTGCCACTCAAGGCTGCCTGCAGAACACGGTGAATGACTTCTGGCGGATGGTGTCCAGGAGAAGTCT
 CGAGTCATTGTCATGACCACAAAGGAAGTGGAGAGAGGGAAGAGCAAATGTGTCAAGTACTGGCCTGATG
 AGTATGCGCTCAAAGAATACGGGGTTCATCGTGTAGGAACGTCAAAGAAAAGTCCCGCCCATGACTACAC
 TTTACGAGAGCTCAAACCTCTAAGGTTCGACAAGGAAAACAGAGAGAACCCTGCGCAGTACCACTTT
 CGGACCTGGCCAGACCATGGCGTGCCTAGTGACCTGGAGGTGTCTGGACTTCTGGAGGAGGTCCACC
 ACAAGCAGGAGAGCATCGTGGATGCAGGCCCTGCTGTTCACTGCAGCGCTGGGATTGGCCGGACAGG
 AACCTTCAATTGTGATTGACATCCTTATTGACATCATTGAGAGAAAGGTGTGGACTGTGACATCGACGTT
 CCTAAAACCATTCAGATGGTGGGTCAGAGGTCGGGGATGGTCCAGACAGAAGCACAGTACCGGTTTA
 TCTACATGGCTGTCCAGCACTACATAGAGACGCTGCAGCGCCGGATCGAGGAGGAGCAGAAAAGCAAAG
 AAAAGGACATGAATATACCAATATTAAGTATTCTTGGTGGACCAGACAAGTGGTATCAGAGTCCCTG
 CCACCCTGCACCCCAACGCCACCCTGTGCAGAAATGAGGGAGGACAGCGCCGAGTCTATGAGACGTGG
 GCCTCATGCAGCAGCAGAGGAGTTTCAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG225515 representing NM_001109992
 Red=Cloning site Green=Tags(s)

MTSRRWFHPNITGVEAENLLLTRGVDGSFLARPSKSNPGDFTLSVRRNGAVTHIKIQNTGDYYDLYGGEK
 FATLAELVQYYMEHHGQLKEKNGDVIELKYPLNCADPTSERWFHGLSGKEAEKLLTEKGKHSFLVRES
 QSHPGDFVLSVRTGDDKESNDGKSKVTHVMIRCQELKYDVGGERFDSLTDLVEHYKKNPMVETLGTVL
 QLKQPLNTRINAAEIESRVRELSKLAETTDKVKQGFWEFETLQQQECKLLYSRKEGQRQENKNKNRYK
 NILPFDHTRVVLHDGPNPVSVDYINANIIMPEFETKCNNSKPKKSYIATQGCLQNTVNDVFRMVFQENS
 RVIVMTTKEVERGKSKCVKYPDEYALKEYGVMRVRNVKESAAHDYTLRELKLSKVGQGNERTVWQYHF
 RTWPDHGVSPDPGGVLDLFLVHVKQESIVDAGPVVHCSAGIGRTGTFIVIDILIDIIREKGVDCDIDV
 PKTIQMVRSQRSQGMVQTEAQYRFIYMAVQHYIETLQRRIEEEQKSKRKGHEYTNIKYSYSLVDQTSGDQSP
 PPCTPTPPCAEMREDSARVYENVGLMQQQRFR

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



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:

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

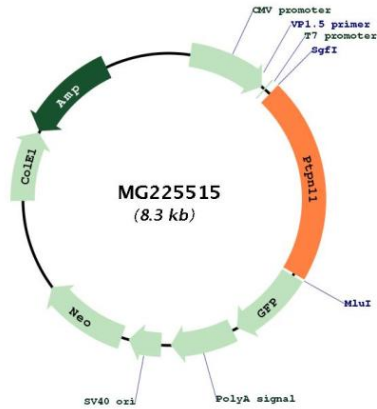
UniProt ID: [P35235](#)

Cytogenetics: 5 F

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]

Product images:



Circular map for MG225515