

Product datasheet for **MR209258**

Ptpn6 (NM_013545) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptpn6 (NM_013545) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ptpn6
Synonyms:	70Z-SHP; hcp; Hcph; me; Ptp1C; PTPTY-42; SH-PTP1; SHP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209258 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGTGAGGTGGTTTCACCGGGACCTCAGCGGGCCTGATGCAGAGACCCTGCTAAAGGGCCGGGAGTCC
 CTGGGAGCTTCTGGCTCGGCCAGCCGCAAGAACCAGGGTGACTTCTCCCTCTCAGTCAGGGTGGATGA
 TCAGGTGACTCATATTCGGATCCAGAACTCAGGGGACTTCTATGACCTGTACGGAGGGGAGAAGTTTGCG
 ACGCTGACAGAGCTGGTCGAGTATTACACGCAGCAGCAGGGCATCCTGCAGGACCAGATGGCACCATCA
 TCCACCTTAAGTACCCACTGAACTGCTCGGACCCACCAGTGAGAGGTGGTACCACGGCCACATATCTGG
 AGGGCAGGCGGAGTCACTGCTGCAGGCCAAGGGCGAGCCCTGGACATTTCTTGTGCGTGAGAGTCTCAGC
 CAACCTGGTGATTTGTGCTCTCTGTGCTCAATGACCAGCCAAAGGCTGGCCAGGTTCCCCGCTCAGGG
 TCACTCATATCAAGGTTATGTGTGAGGGTGGACGCTATACTGTGGGTGGCTCAGAGACGTTTGACAGCCT
 CACAGACCTGGTGGAGCACTTCAAGAAGACAGGGATTGAGGAGGCTCGGGTGCCTTTGTCTACCTGCGG
 CAGCCTTACTACGCCACTCGGGTAAACGCAGCTGACATTGAGAATCGGGTCTTGGAACTGAACAAGAAGC
 AGGAGTCGGAGGACACAGCCAAGGCTGGCTTCTGGGAGGAGTTTGTAGAGTCTACAAAAGCAGGAGGTAAA
 GAATCTACACCAACGCTCTGGAAGGGCAGCGCCGGAGAACAAGAGCAAGAACCCTACAAGAACATTCTT
 CCCTTTGACCACAGCCGAGTGATCTCTGCAGGGACGTGACAGTAACATCCCAGGCTCTGACTACATCAATG
 CCAACTACGTGAAGAACCAGCTGCTAGGTCCAGATGAGAACTCTAAGACCTACATCGCCAGCCAGGGCTG
 TCTGGATGCCACAGTCAATGACTTCTGGCAGATGGCTTGGCAGGAGAACAACCTCGTGTATCGTATGACT
 ACCAGAGAGGTGGAGAAAGGCCGGAACAATGTGTCCATACTGGCCGAGGTGGGCACTCAGCGTGTCT
 ATGGTCTCTACTCTGTGACCAACAGTAGGGAGCATGACACAGCAGAATACAAACTGCGAACATTACAGAT
 CTCCCCACTAGACAATGGGGACCTGGTTCTGGGAGATATGGCACTACCAGTACCTGAGCTGGCCTGACCAT
 GGGGTTCCAGTGAAGCTGGGGTGTCTCAGCTTCTGGATCAGATCAACCAGCGACAGGAAAGTTTGC
 CTCATGCAGGGCCATCATTGTGCATTGCACGCTGGCATCGGCCGACGGGCACCATCATCGTATTGA
 TATGCTTATGAAAGCATCTCCACCAAGGGGCTAGACTGTGACATTGATATCCAGAAGACCATCCAGATG
 GTACGAGCACAGCGCTCCGGCATGGTGCAGACCGAGGCCAGTACAAGTTTATTTACGTGGCCATTGCC
 AGTTCATCGAAACGACCAAGAAGAACTGGAGATCATAAATCCCAGAAGGGCCAGGAGTCGGAGTATGG
 GAATATACGTACCTCCCGCTGTGAGGAGTGCCACGCCAAAGCCTCGCGTACTTCTCCAAGCACAAG
 GAGGAGGTGTACGAAAACGTGCATAGCAAGAGCAAGAAGGAAGAGAAAGTAAAGAAGCAGCGGTCCGCAG
 ACAAGGATAAGAACAAGGTTCTCTCAAGAGGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209258 protein sequence
 Red=Cloning site Green=Tags(s)

MVRWFHRDLSGPD AETLLKGRGVPGSFLARPSRKNQGD FLSV RVDDQVTHIRIQNSGDFYDLYGGEKFA
 TLTELVEYYTQQQGI LQDRDGTIIHLKYPLNCS DPTSERWYHGHISGGQAESLLQAKGEPWTF LVRESLS
 QPGDFVLSV LNDQPKAGPGSPLRVTHIKVMCEGGRYTVGGSETFDSL TDLVEHFKKTGIEEASGAFVYLR
 QPYATRVNAAD IENRVLELNKKQESED TAKAGFWEEFESLQKQEVKNLHQRLLEGQRPENKSKNRYKNIL
 PFDHSRVILQGRDSNIPGSDYINANYVKNQLL GPDENSKTYIASQGCLDATVNDFWQMAWQENTRIVMT
 TREVEKGRNKCVPYWP EGTQRVYGLYSVTNSREHDTAEYKLR TLQISPLDNGDLVREIWHYQYLSWPDH
 GVPSEPGVLSFLDQINQRQESLPHAGPIIVHCSAGIGRTGTIIVIDMLMESISTKGLDCDIDIQKTIQM
 VRAQRSGMVQTEAQYKF IYVAIAQFIETTKKLEIIQSQKQSEYGNITYPPAVRSAHAKASRTSSKHK
 EEVYENVHSSKKEEKVKKQRSADKDNKNGSLK RK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_013545

ORF Size: 1788 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](#)

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:

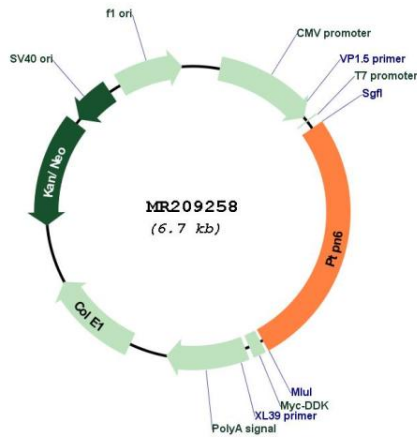
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_013545.1](#), [NM_013545.2](#), [NM_013545.3](#), [NP_038573.2](#)

RefSeq Size: 2219 bp
 RefSeq ORF: 1788 bp
 Locus ID: 15170
 UniProt ID: [P29351](#)
 Cytogenetics: 6 59.17 cM
 MW: 67.5 kDa

Gene Summary: Modulates signaling by tyrosine phosphorylated cell surface receptors such as KIT and the EGF receptor/EGFR. The SH2 regions may interact with other cellular components to modulate its own phosphatase activity against interacting substrates. Together with MTUS1, induces UBE2V2 expression upon angiotensin II stimulation. Plays a key role in hematopoiesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209258