

Product datasheet for **MG227066**

Ptpn6 (NM_001077705) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptpn6 (NM_001077705) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ptpn6
Synonyms:	70Z-SHP; hcp; Hcph; me; Ptp1C; PTPTY-42; SH-PTP1; SHP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG227066 representing NM_001077705
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTGTCCCGGGTGGTTTCACCGGGACCTCAGCGGGCCTGATGCAGAGACCCTGCTGAAGGGCCGGG
 GAGTCCCTGGGAGCTTCTCGGCTCGGCCAGCCGCAAGAACCAGGGTGACTTCTCCCTCTCAGTCAGGGT
 GGATGATCAGGTGACTCATATTCGGATCCAGAACTCAGGGGACTTCTATGACCTGTACGGAGGGGAGAAG
 TTTGCGACGCTGACAGAGCTGGTCGAGTATTACACGCAGCAGCAGGGCATCCTGCAGGACCAGATGGCA
 CCATCATCCACCTTAAGTACCCACTGAAGTCTCGGACCCACCAGTGAGAGGTGGTACCACGGCCACAT
 ATCTGGAGGGCAGGCGGAGTCACTGCTGCAGGCCAAGGGCGAGCCCTGGACATTTCTTGTGCGTGAGAGT
 CTCAGCCAACCTGGTATTTTGTGCTCTCTGTGCTCAATGACCAGCCCAAGGCTGGCCAGGTTCCCCGC
 TCAGGGTCACTCATATCAAGTTATGTGTGAGGGTGGACGCTATACTGTGGTGGCTCAGAGACGTTTGA
 CAGCCTCAGACCTGGTGGAGCACTTCAAGAAGACAGGGATTGAGGAGGCTCGGGTGCCTTTGTCTAC
 CTGCGGCAGCCTTACTACGCTACTCGGGTAAACGCAGCTGACATTGAGAAATCGGGTCTTGGAACTGAACA
 AGAAGCAGGAGTCGGAGGACACAGCCAAGGCTGGCTTCTGGGAGGAGTTTGGAGTCTACAAAAGCAGGA
 GGTAAAGAATCTACACCAACGTCTGGAAGGGCAGCGGCCAGAGAACAAGGACAAGAACCCTACAAGAAC
 ATCTTCCCTTTGACCACAGCCGAGTGATCCTGCAGGGACGTGACAGTAACATCCAGGCTCTGACTACA
 TCAATGCCAAGTACGTGAAGAACCAGCTGCTAGGTCCAGATGAGAAGTCTAAGACCTACATCGCCAGCCA
 GGGCTGTCTGGATGCCACAGTCAATGACTTCTGGCAGATGGCTTGGCAGGAGAACAACCTCGTGTATCGTC
 ATGACTACCAGAGAGGTGGAGAAAGGCCGAACAATGTGTCCATACTGGCCGAGGTGGGCACCTCAGC
 GTGTCTATGGTCTTACTCTGTGACCAACAGTAGGGAGCATGACACAGCAGAATACAAACTGCCAACAT
 ACAGATCTCCCACTAGACAATGGGGACCTGGTTCGGGAGATATGGCACTACCAGTACCTGAGCTGGCCT
 GACCATGGGGTCCCAAGTGGCCTGGGGTGTCTCAGCTTTCTGGATCAGATCAACCAGCGACAGGAAA
 GTTTGCCTCATGCAGGGCCATCATTGTGCATTGCAGCGCTGGCATCGGCCGCACGGGCACCATCATCGT
 CATTGATATGCTTATGAAAGCATCTCCACCAAGGGGCTAGACTGTGACATTGATATCCAGAAGACCATC
 CAGATGGTACGAGCACAGCGCTCCGGCATGGTGCAGACCAGGCCAGTACAAGTTTATTTACGTGGCCA
 TTGCCAGTTCATCGAAACGACCAAGAAGAAACTGGAGATCATAAATCCAGAAGGGCCAGGAGTCGGA
 GTATGGGAATATCAGTACCCTCCGCTGTGAGGAGTCCCACGCCAAAGCCTCGCGTACTTCTCCAAG
 CACAAGGAGGAGGTGTACGAAAACGTGCATAGCAAGAGCAAGAAGGAAGAAAGTAAAGAAGCAGCGGT
 CGGCAGACAAGGAGAAGAACAAGGTTCTCTCAAGAGGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG227066 representing NM_001077705
 Red=Cloning site Green=Tags(s)

MLSRGWFHRDLSGPD AETLLKGRGVPGSFLARPSRKNQGFSLSVRVDDQVTHIRIQNSGDFYDLYGGEK
 FATLTELVEYYTQQQILQDRDGTIIHLKYPLNCSDP TSERWYHGHS GGQAESLLQAKGEPWTFVLVRES
 LSQPGDFVLSVLNDQPKAGPGSPLRVTHIKVMCEGGRYTVGGSETFDSL TDLVEHFKKTGIEEASGAFVY
 LRQPPYYATRVNAADIENRVLELNKKQES EDTAKAGWEEFESLQKQEVKNLHQRL EGQRPENKSKNRYKN
 ILPFDHSRVILQGRDSNIPGSDYINANYVKNQLL GPDENSKTYIASQGCLDATVNDFWQMAWQENTRIV
 MTTREVEKGRNKCVPYWPEVGTQRVYGLYSVTNSREHDTAEYKLR LQLISPLDNGDLVREIWHYQYLSWP
 DHGVPSEPGGVL SFLDQINQRQESLPHAGPIIVHCSAGIGRTGTIIVIDMLMESISTKGLDCDIDIQKTI
 QMVRAQRSGMVQTEAQYKFIYVAIAQF IETTCKKLEIIQSQKQSEYGNITYPPAVRSAHAKASRTSSK
 HKEEVYENVHSSKKEEKVKKQRSADKEKNKGS LKRK

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001077705

ORF Size: 1791 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_001077705.2](#)

RefSeq Size: 2222 bp

RefSeq ORF: 1794 bp

Locus ID: 15170

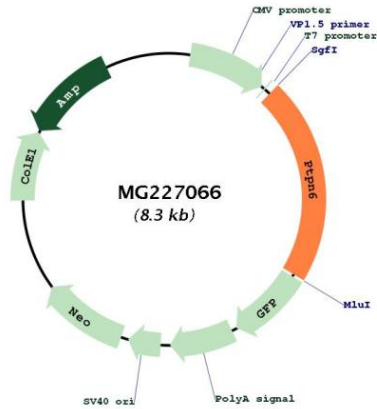
UniProt ID: [P29351](#)

Cytogenetics: 6 59.17 cM

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 MG227066