

Product datasheet for **MG223197**

Ptpro (NM_011216) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptpro (NM_011216) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ptpro
Synonyms:	D28; GLEPP1; PTPBK; Ptpn15; PTPoc; PTPphi; PTPROt; PTPU2; R-PTP-O
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG223197 representing NM_011216 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCACCTGCCTAGGGGAACGCTCGGGGGCCCGCCTGCTACCTCTGCTCGGGCTCTTTGTGCTGC
TCAAGATTGTTACGACGTTCCACGTGGCTGTGCAAGATGACAACAATATCGTTGTGCTTTAGAAAGCTTC
TGATATAGTCAGCCAGCATCTGTGTATGTTGTGAGGGTAGCTGGCGAATCAAAAACTATTTCTTCGAA
TTTGAGGAATTTAACAGCACATTGCCTCCTCCTGTGGTCTTTAAGGCCACATATCAGGTCTTTATTACA
TAATCACTCTGGTGGTAGTCAACGGGAATGTGGTCACCAAACCATCCAGATCAATCACCGTGTGACAAA
ACCCTTGCTGTAAACAGTGTGTCTATCTATGACTATAAACCTTCTCCTGAGACAGGAGTCTGTTTGAA
ATCCATTATCCGAAAAATAACAATGTGTTCAAGCAGAGTGAACATCAGCTACTGGGAAGGGAGGGACTTCA
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ACTTGAACAAGAACAACCTGGGAGGAGCCGAGCGGGAGCTTCCCGAGGACTCGTTCATCAAACACCGCA
AGATTCAATAGGAAGAGACAGACGCTTCCATTTCCCGAAGAACTCCGGAGACTCCCCCAGCAATGTG
TCCTCCGGTCTCCCCCAGCAATGTGCTCCTCCGCTTGGCCTGACCCGAATAGCACAGACTATGAAAGCA
CATCACAGCCCTTCTGGTGGACAGTGCATCCGCGGCCCTGAAAACGAGGAGGACTTTGTCAAGTGCCT
GCCAGCAGACTATGACACTGAGACCACACTCGATAGGACAGAGAAGCCACAGCCGACCCCTTCTCTGCC
TTCCCTGTGCAGATGACTCTGAGCTGGTACCACCAACCGCCACAGCCTTTGATGGCTTCAATATCC
TCATAGAGAGGGAAGAGAAGTACTGACTATTTGACAGTGGATGAAGAAGCCCATGAATTCGTTGCAGA
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CTGGAGAAGCAGTATTGTACCCAGGTGAACTCAAGCAAACCTGTAATTGAGAACCTGGTTCTGGTGCCC
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ACAGAGGAGCAGTACATTTTATCCATCAGTGTGTGCAGCTGATGTGGCTGAGGAAGAAGCAACAGTTCT
GCATCAGCGACGTCTACGAGAACGTCAGCAAATCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG223197 representing NM_011216
 Red=Cloning site Green=Tags(s)

MGHLPRGTLGGRLLPLLGLFVLLKIVTTFHVAVQDDNNIIVSLEASDIVSPASVYVVRVAGESKNYFFE
 FEEFNSTLPPPVFVKATYHGLYYIITLVVNGNVVTKPSRSITVLTKPLPVTSVSIYDYKPSPETGVLFE
 IHYPEKYNVFSRVNISYWEGRDFRMLYKDFFKGKTVFNHWLPLGLCYSNITFQLVSEATFNKSTLVEYSG
 VSHEPKQHRTPAPYPPRNI SVRFVNLNKNWEEP S G S F P E D S F I K P P Q D S I G R D R R F H F P E E T P E T P P S N V
 SSGSPPSNVSSAWPDPNSTDYESTSQPFWWSASAAPENEEDFVSALPADYDTEITLDRTEKPTADPFSA
 FPVQMTLSWLPPKPPTAFDGFNLI IEREENFTDYLTVDEEAHEFVAELKEPGKYKLSVTTFSSSGACETR
 KQSQAKLSFYISPTGEWIEELTEKQHVSVHLSSTTALMSWTSSQENYNSTIVSVSLTCQKQKESQR
 LEKQYCTQVNSSKPV IENLVPGAQYQVVMYLRKGPLIGPPSDPVTFAIVPTGIKDLMLYPLGPTAVVLSW
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 CDSSTISFITAPVAPEITSVEYFNLLYISWTYGDATDLSHRMLHWMVVAEGRKKIKKSVTRNVMTAI
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 TLLIGLLLVTLVILRKKHLQMARECGAGTFVNFASLEREGKLPYSWRRSVFALLTLLPSCLWTDYLLAFY
 INPWSKNGLKKRKL TNPVQLDDFDSYIKDMAKDSYKFSLQFEELKLI GLDIPHFAADLPLNRCKNRYTN
 ILPYDFSRVRLVSMNEEEGADYINANYIPGYNSPQEYIATQGPLPETRNDFWKMVLQKSHIIVMLTQC
 EKRRVKCDHYWPFTEEP IAYGDI TVEMVSEEEEDWASRHFRI NYADEAQDVMHFNYTAWPDHGVPPANA
 AESILQFVFTVRQAAKSKGPMI IHCSAGVGRGTGTFIALDRLLQHIRDHEFVDILGLVSEMRSHRMSMVQ
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TRTRPLE - GFP Tag - V

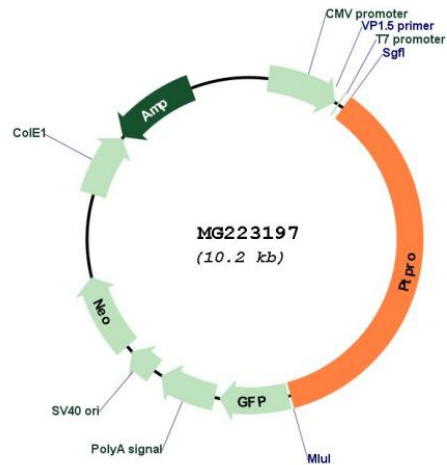
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_011216

ORF Size: 3678 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_011216.2](#)

RefSeq Size: 6634 bp

RefSeq ORF: 3681 bp

Locus ID: 19277

UniProt ID: [E9Q612](#)

Cytogenetics: 6 G1

Gene Summary:

Possesses tyrosine phosphatase activity. Plays a role in regulating the glomerular pressure/filtration rate relationship through an effect on podocyte structure and function. [UniProtKB/Swiss-Prot Function]