

Product datasheet for **MG224894**

Ptpro (NM_001164403) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptpro (NM_001164403) 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:	>MG224894 representing NM_001164403 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTACAGAGGTGAACCCTAACGTGGTGGTATCTCGGTGCTGGCCATCCTCAGCACACTTTTAATTG
GACTGCTCTTAGTGACCCTTGTCTTCCGAAAGAAGCACCTGCAGATGGCTAGGGAATGTGGAGCTGG
CACGTTTGTAACTTTGCATCCTTAGAAAGGGAAGGAACTCCCTACAGTTGGAGTAAAAATGGCTTA
AAGAAGAGGAACTAACAAACCCCGTTCAGCTGGATGACTTCGATTCTTACATCAAGGATATGGCCAAGG
ACTCGGACTATAAATTCTCTTTCAGTTTGAGGAGTTGAAGTTGATTGGACTGGATATCCGCACCTTGC
TGAGATCTACCGCTGAACCGATGTAAAAACCGCTACACAACATCCTGCCGTATGACTTTAGCCGGGTG
AGGCTAGTCTCCATGAACGAAGAGGAAGGAGCAGACTACATTAATGCCAACTATATTCCTGGATAACCT
CACCCAGGAGTACATTGCCACCCAGGGTCCCCTGCCAGAAACCAGAAATGACTTCTGGAAGATGGTCTCT
ACAACAGAAGTCCCACATCATCGTCACTCAATGCAATGAGAAAAGGAGGGTAAAATGTGACCAC
TACTGGCCATTACAGAAGAACCATTGCTTATGGGGACATCACCGTGGAGATGGTCTCTGAGGAAGAGG
AGGAGGACTGGCCAGTAGACACTTCCGGATCACTATGCGGACGAAGCGCAGGACGTGATGCATTTTAA
CTACACAGCCTGGCCGATCACGGCGTGCCTCCAGCAAACGCCCGGAGAGCATCCTGCAGTTTGTGTTT
ACAGTGGCAGCAGCAAGCCGCAAGAGCAAAGGGCCCATGATCATCCACTGCAGTCCGGGTGGGACGGA
CAGGAACCTTCATTGCCCTGGACAGGCTCCTGCAACACATTCGAGATCATGAATTTGTGGACATCTTAGG
GCTGGTATCAGAGATGCGCTCATACCGAATGTCAATGGTACAGACAGAGGAGCAGTACATTTTATCCAT
CAGTGTGTGCAGCTGATGTGGCTGAGGAAGAAGCAACAGTTTCTGCATCAGCGACGTCTCTACGAGAACG
TCAGCAAATCC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG224894 representing NM_001164403
 Red=Cloning site Green=Tags(s)

MVTEVNPVNVVISVLAILSTLLIGLLLVLVILRKKHLQMARECGAGTFVNFASLEREGKLPYSWSKNGL
 KKRKL TNPVQLDDFDSYIKDMAKDSYKFSLQFEELKLI GLDIPHFAADLPLNRCKNRYTNILPYDFSRV
 RLVSMNEEEGADYINANYIPGYNSPQEYIATQGPLPETRNDFWKMLVQQKSHII VMLTQCNEKRRVKCDH
 YWPFTEEPIAYGDITVEMVSEEEEEEDWASRHFRI NYADEAQDVMHFNYTAWPDHGVPPANAAESILQFVF
 TVRQQAAKSKGPMIIHCSAGVGRGTGFI ALDRLLQHIRDHEFVDILGLVSEMRSYRMSMVQTTEEYIFIH
 QCVQLMWLRKKQQFCISDVIYENVSKS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001164403

ORF Size: 1131 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_001164403.1](#), [NP_001157875.1](#)

RefSeq Size: 4096 bp

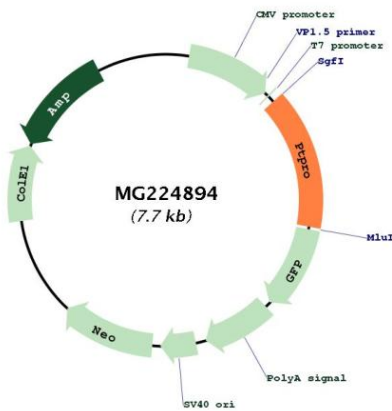
RefSeq ORF: 1134 bp

Locus ID: 19277

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]

Product images:



Circular map for MG224894