

## Product datasheet for **MG224375**

### Ptpru (NM\_001083119) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ptpru (NM_001083119) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ptpru
Synonyms:	Ftp-1; PCP-2; Pcp2; PTP; PTP-lambda; Ptpf; PTPlambda; Ptpri; R-PTP-psi; R-PTP-U; RPTPlambda
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224375 representing NM_001083119 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCCCGGCTCAGGCTCTGGTCTGGCGCTCACCTTCCAGTTCTGCGCGCCTGAGACCGAGACTCCCG  
CAGCTGGCTGCACCTTCGAGGAGGCGAGTGACCCGGTCGTGCCCTGCGAGTTCAGCCAGGCTCAGTATGA  
CGACTTCAATGGGAGCAAGTCCGGATCCACCCGGCACCCGGACCCCTGAAGACCTGCCCCATGGTGCC  
TACTTGATGGTCAATGCTTCTCAGCATGCCCCAGGTCAGAGGGCCACATCATCTTCCAGACCCTGAGCG  
AGAACGACACCCATTGTGTGCAGTTCAGTACTTCTGTACAGCAGGGATGGGCACAGCCAGGCACCCCT  
GGGGGTCTACGTGCGCGTGAATGGGGGCCCTCTGGGCAGTGCCGTGTGGAATATGACCGGATCCACGGC  
CGTCAGTGGCACCAGGCTGAGCTGGCTGTGACACCTTCTGGCCCAATGAGTATCAGGTGCTGTTTGAGG  
CCCTCATCTCCCCAGACCACAAGGGCTACATAGGCTTAGACGACATCTTGCTCTTCCAGCTATCCCTGCGC  
AAAGGCCCTCACTTCTCCCGCTTGGGGACGTGGAGGTCAATGCAGGCCAGAACGCATCCTTCCAATGC  
ATGGCAGCAGGCAGAGCCGAGAGGCAGAACACTTCTTCTGCAGCGTCAGAGTGGAGTGTGGTGCCTG  
CGGCCGGGTGCGGCACATCAGCCACCGTCGCTTCTGGCCACTTTTCCGCTGGCCTCGGTAGGCCGCTC  
AGAGCAGGATCTGTACCCTTGGTGTCCAGGCCCGCGTGGTGTGGCTCTCCAACCTTGCAGAGCTC  
ATCGTCAAAGAGCCTCCACCCCATCGCGCCCCACAGCTGCTGCGTGCAGGCCACCTACCTCATT  
TCCAGCTCAACACCAACTCCATCATTGGCGACGGGCCGATCGTGCGAAGGAGATCGAGTACCGCATGGC  
ACGGGGCCCGTGGGCCGAGGTGCACGCTGTCAACCTGCAGACCTACAAGCTGTGGCATCTGGACCCAGAC  
ACTGAGTATGAAATCAGCGTGTGCTCACACGCCCGGAGATGGAGGCACAGGCCGCCCTGGGCCACCAC  
TGATCAGCCGGACCAAGTGCAGAGCCACGAGGGCCCCAAAGGTCTGGCTTTTGTGAGATCCAGGC  
TCGCCAGTGCACCTGACGTGGGAGCCCTGGGCTATAATGTCACACGTTGTACACCTACGCTGTGTCC  
CTTTGCTATCGTACACCCTGGGCGGCAGCCACAACCAGACCATCCGGGAGTGTGTAAGATGGAGCGGG  
GTGCCAGCGCTACACCATCAAGAATCTGCTGCCATTAGAAACATCCACGTGCGTCTGATTCTCACAAA  
CCCTGAGGGCGCAAGGAGGGCAAGGAGTCCAGACAGATGAAGATGTGCTGTTGGGATTGCA



[View online »](#)

GCTGAGTCCCTAACCTTCACTCCACTGGAGGACATGATCTTTCTCAAGTGGGAGGAGCCCCAGGAGCCCA  
ATGGCCTCATCACTCAGTATGAGATCAGCTACCAAAGCATTGAGTCTCAGACCCAGCAGTGAACGTGCC  
CGGCCCGAGACGCACCATCTCCAAACTCCGGAATGAGACTTACCACGTCTTCTCCAACTGCATCCCCGGC  
ACCACGTATCTGTTCTCCGTGCGTGTCTCGGACGAGCAAGGGCTTCGGCCAGGCGGCTCTCACTGAGATAA  
CCACCAACATCTCAGTCCCAGCTTTGATTATGCCGACATGCCGTACCCCTGGGCGAGTCCGAGAACAC  
CATCACTGTGCTGTTGAGGCCGGCCAGGGCCAGGAGCCCCATCAGCGTCTACCAGGTGGTTGTGGAG  
GAAGACGGCCACGCGCTTTCGGCGGGAGCCCGGAGCTCAGGACTGCTTCTCGGTACCTCTGACCTTTG  
AGACGGCCCTGGCTCGCGGCTTGGTGCCTACTTTGGGGCTGAACTGGCTGCCAGCAGCCTGCTTGAGGC  
CATGCCCTTACCCTGGGTGACAACCAGACCTATCGTGGCTTCTGGAACCCACCGCTTGAGCCAGAAAAG  
GCCTATCTCATCTATTTCCAGGCAGCAAGCCACCTGAAAGGGGAAACCCGACTGAACTGCATCCGAATTG  
CCAGGAAAGCTGCGTGAAGGAGAGCAAGCAGCCCTCGAAGTGTCCAGAGATCGGAGGAGATGGGGCT  
CATCTGGGCATCTGTGCAGGTGGTCTTGCCGTCTTCTCTCTCTGGGGCCATCATTGTCTATCATC  
CGCAAAGGGAGGGACCGCTATGCCTACTTACTACCCGAAGCCAGTGAACATGACGAAAGCCACGGTCA  
ACTACCGCAGGAGAAGACTCACATGATGAGTGGCGTGGACCGCAGCTTACAGATCAGAGTACTCTGCA  
GGAGGATGAGCGTTGGGTCTGTCTTTATGGATGCTCCTGGCTATAGTCTCGTGGAGACCAGCGAAGC  
GGTGGTGTACCCGAGGCCAGCAGCTCCTGGGGGTTCTCCAAGGCGCCATGCGCCGGGAGGGTTCTC  
CGTATCATACCGGCAGCTCCACCTGCAGTCCGAGTGGCTGACCTTCTACAGCAGATCAACCAGATGAA  
GACAGCCGAGGGCTACGGCTTCAAGCAGGAGTACGAGAGTTTCTTTGAGGGCTGGGACGCCACCAAGAAG  
AAAGACAAGCTCAAGGGCGGCCACAGGAGCCAGTGTCTGCCTATGATCGACACCATGTGAAACTACACC  
CGATGCTGGCAGACCCCTGATGCCACTACATCTCTGCCAACTACATAGACGGCTACCACAGGTCAAACCA  
CTTCATAGCCACTCAAGGGCCAAAGCCTGAGATGATCTACGATTTCTGGCGCATGGTGTGGCAGGAACAG  
TGTGCGAGCATCGTATGATCACCAAGCTGGTAGAGGTGGCAGGGTGAAGTGTCTCGTACTGGCCTG  
AGGACTCAGACATGTATGGGACATCAAGATCACGCTGGTAAAGACAGAGACACTGGCTGAGTATGTGGT  
GCGCACCTTTGCCCTGGAGCGGAGAGTTACTCAGCCCGCATGAGGTCCGCCAGTTCATTTACAGCG  
TGCCAGAGCATGGTGTCCCTACCACGCCACGGGCTGCTGGCCTTCTCCGGCGTGTGAAGGCTTCCA  
CTCCACCTGATGCCGGGCCATTGTCACTGCACTGCAAGTGCAGGAACTGGCCGCACAGGCTGCTACATCGT  
CCTGGATGTGATGCTGGACATGGCTGAATGTGAGGGGCTCGTGGACATTTAACTGTGTGAAGACCCTC  
TGTTCCCGACGGGTCAACATGATCCAGACGGAGGAACAATATCTTCATCCACGATGCAATCTTGAGG  
CCTGCCTGTGTGGGAGACCACCATCCCTGTCAACGAGTTCAGGCCACCTACAGGGAGATGATCCGCAT  
TGACCCTCAGAGCAATTCCTCCAGCTTCGGGAAGAGTTCAGACGCTGAACTCGGTACGCCGCCGCTG  
GATGTGGAGGAGTGTAGCATTGCCCTGCTGCCCGGAATCGAGACAAGAACCGTAGCATGGATGTGCTGC  
CACCAGACCGCTGCCTGCCCTTCTCATCTCCAGTGTGGGACCCCAATAACTACATCAATGCAGCACT  
GACTGACAGCTACACACGGAGCGCCGCTTTCATCGTGACCTGCACCCGCTGCAGAGTACCACGCCCGAC  
TTCTGGCGGCTGGTCTACGACTACGGGTGCACCTCCATCGTATGCTGAACCAACTTAACCAGTCCAAC  
CCGCTGGCCCTGCTTGCAGTACTGGCCGGAGCCAGGCCGACAGCAGTATGGGCTCATGGAGGTGGAGTT  
TGTGTCTGGCACAGAAACGAGGATTTGGTGTCCCGAGTGTCCGGGTGCAGAACTTCTCTCGGCTGCAG  
GAGGGTCACTGCTGGTACGGCACTTCCAGTTTCTGCGTTGGTCTGCTTATCGGGACACGCCCTGACTCCA  
GGAAGGCCTTTCTGCACCTGTTGGCTGAGGTGGACAAGTGGCAGGCAGAGAGTGGGATGGGCGCACCGT  
GGTGCATTGTCTCAACGGGGTGGCCGAGTGGCACCTTCTGCGCTGTGCCACGGTCTTGAGAGATGATC  
CGCTGTACAGCCTGGTGGATGTTTTCTTTGCTGCCAAAACACTTCGGAACATAAAGCCCAATATGGTGG  
AGACCATGGATCAGTATCATTTCTGCTACGACGTGGCCCTGGAGTACCTGGAGGCTCTGGAGTTGAGA

ACCGTACGCGGCCGCTCGAG – GFP Tag – GTTAA

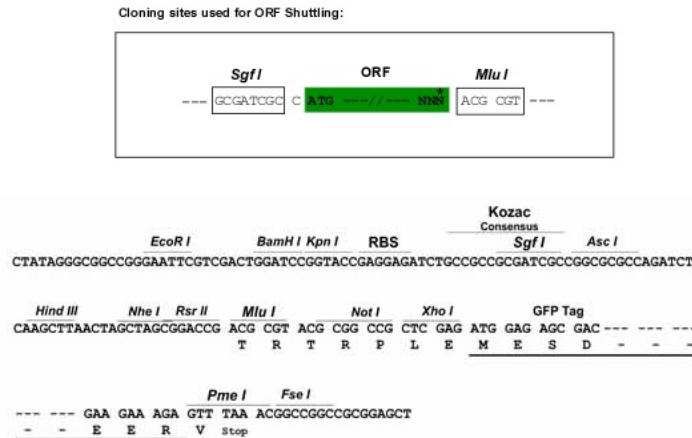
Protein Sequence: >MG224375 representing NM\_001083119  
 Red=Cloning site Green=Tags(s)

MARAQALVLALTFQFCAPETETPAAGCTFEEASDPVVPCEFSQAQYDDFQWEQVRIHPGTRTPEDLPHGA  
 YLMVNASQHAPGQRAHIIFQTLSENDTHCVQFSYFLYSRDGHSPGTLGVYVRVNGGPLGSAVWNMTGSHG  
 RQWHQAEAVSTFWPNEYQVLFALISPDHKGYIGLDDILLFSYPCAKAPHFSRLGDVEVNAGQNASFQC  
 MAAGRAAEAEHFLLQRQSGVLVPAAGVRHISHRRFLATFPLASVGRSEQDLYRCVSOAPRGAGVSNFAEL  
 IVKEPPTPIAPPQLLRAGPTYLIIQLNTNSIIGDGPVIRKEIEYRMARGPWAEVHAVNLQTYKLWHLDPD  
 TEYEISVLLTRPGDGGTRPGPPLISRTKCAEPTRAPKGLAFAEIQARQLTLQWEPLGYNVTRCHTYAVS  
 LCYRYTLGGSHNQTIRECVKMERGASRYTIKNLLPFRNIHVRLILTNPGRKEGKEVTFQDDEDVPGGIA  
 AESLTFPLEDMIFLKWEEPQEPNGLITQYEISYQSISSDPVNVVPGPRRTISKLRNETYHVFSNLHPG  
 TTYLFSVRARTSKGFGQAALTEITTNISAPSFYADMPSPLESENTITVLLRPAQGRGAPI SVYQVVVE  
 EERPRRLRREPGAQDCFSVPLTFETALARGLVHYFGAELAASSLLEAMPFTVGDNQTYRGFWNPPLPRK  
 AYLIYFQAASHLKGETRLNCIRIARAKACKESKRPLEVSRSEEMGLILGICAGGLAVLILLGAIIVII  
 RKGRDRYAYSYPKPVNMTKATVNYRQEKTHMMSAVDRSFTDQSTLQEDERLGLSFM DAPGYSPRGDQRS  
 GGVEASSLLGGSPRRPCGRKGSPTYHTGQLHPAVRVADLLQHINQMKTAEYGFQKQYEFSEFEGWDATKK  
 KDKLKGGRQEPVSAYDRHHVKLHPMLADPDADYISANYIDGYHRSNHFIATQGPKPEMIYDFWRMWWQEQ  
 CASIVMITKLVEVGRVKCSRYWPEDSDMYGDIKITLVKTETLAEYVVRTFALERRGYSARHEVRQHFHTA  
 WPEHGVPHYATGLLAFIRRVKASTPPDAGPIVIHCSAGTGRTGCYIVLDVMLDMAECEGVVDIYNCVKTL  
 CSRRVNMIQTEEQYIFIHDAILEACLGETTIPVNEFKATYREMIRIDPQSNSSQLREEFQTLNSVTPPL  
 DVEECISIALPRNRDKNRSMVDLPPDRCLPFLISSDGPNNYINAAL TDSYTRSAAFIVTLHPLQSTTPD  
 FWRLVYDYGCTSI VMLNQLNQSNASAWPCLQYWPEPGRQQYGLMEVEFVSGTANEDLVS RVFRVQNSSRLQ  
 EGHLLVRHFQFLRWSAYRDT PDSRKAFLLHLLAEVDKWQAESGDGRTVVHCLNNGGGRSGTFCACATVLEMI  
 RCHSLVDVFFAAKTLRNYKPNMVETMDQYHFCYDVALEYLEALELR

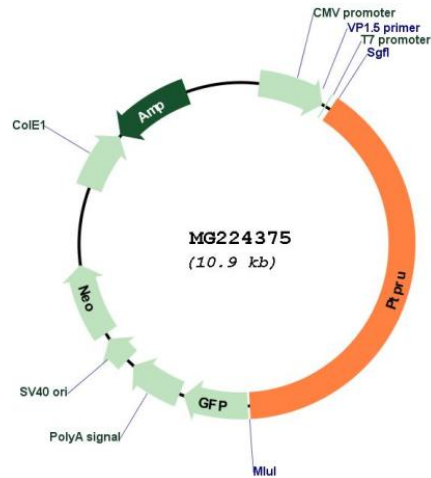
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



**ACCN:** NM\_001083119

**ORF Size:** 4338 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\\_001083119.2](#), [NP\\_001076588.1](#)

**RefSeq Size:** 5528 bp

**RefSeq ORF:** 4341 bp

**Locus ID:** 19273

**UniProt ID:** [B1AUH1](#)

**Cytogenetics:** 4 64.5 cM

**Gene Summary:** Tyrosine-protein phosphatase which dephosphorylates CTNNB1. Regulates CTNNB1 function both in cell adhesion and signaling. May function in cell proliferation and migration and play a role in the maintenance of epithelial integrity. May play a role in megakaryocytopoiesis (By similarity).[UniProtKB/Swiss-Prot Function]