

## Product datasheet for **MR231803**

### Ptprt (NM\_001291151) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ptprt (NM_001291151) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ptprt
Synonyms:	mKIAA0283; mRPTPrho; R-PTP-T; RPTP-rfo; RPTP-rho; RPTPmam4; RPTPrho
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR231803 representing NM_001291151 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGAGCCTTGGCGGGCTCGCCCTCTGCCTGCTCCGGCTCCTGCTCCTGGGGCTGCAGCGCCCGCGT  
TGCCCGGCCCGGAGCGCAGAGCGCCGAGGTGGCTGTTCTTTGACGAACATTACAGCAACTGCGGGTA  
TAGCGTGGCTCTGGGAACCAATGGGTTTACCTGGGAGCAGATTAACACATGGGAGAAGCCAATGCTGGAC  
CCAGCTGTGCCACAGGGTCCTTCATGATGGTGAACAGCTCTGGAAGGGCTTCAGGCCAGAAAGCCATC  
TCTTCTGCCAACCTTGAAGGAGAATGACACTCACTGCATTGACTTCCATTACTACTTCTCCAGTCGAGA  
TCGCTCCAGCCCGGGAGCCTTGAATGTCTACGTGAAGGTGAATGGTGGACCCCAAGGGAACCCTGTCTGG  
AACGTATCTGGCGTCTGCTACTGAGGGCTGGGTGAAGGCAGAGCTTGCCATCAGCACCTTCTGGCCTCATT  
TCTATCAGGTGATATTTGAATCCGTCTCTTTGAAAGGTCATCCTGGTTACATCGCTGTGGACGAAGTTCC  
GGTCTTGGCTCATCCATGCAGAAAAGCACCTCATTCTCGGACTCCAAAACGTTGAGGTGAATGTGGGG  
CAGAACGCCACGTTTCAGTGCATTGCTGGTGGAAAGTGGTCCCAGCATGACAACTTTGGCTCCAGCAAT  
GGAATGGCAGAGACACAGCCCTCATGGTCACCCGGGTGGTCAACCACAGACGCTTCTCAGCCACAGTGAG  
TGTGGCAGACACCTCTCAACGCAGTATCTCCAAGTATCGCTGCGTGATCCGCTCAGATGGTGGGCTGGT  
GTGTCCAATATGCAGAGCTGATTGTGAAAGAGCCTCCCACGCCATTGCTCCCCGGAACACTACTGGCCG  
TGGGTGCCACCTACCTGTGGATTAACCAAAATGCCAACTCCATTATTGGGGATGGCCCCATCATACTGAA  
GGAGGTAGAATACCGCACAACCACAGGAACCTGGGCCGAGACCCACATCGTGGACTCTCCAACTACAAG  
CTCTGGCATCTGGACCCTGATGTGGAGTATGAGATCCGGGTGCTGCTCACACGACCAGGAGAGGGGGCA  
CAGGACCACCAGGACCACCCTAACTACCAGGACCAAGTGTGCCGATCCCGTGCATGGCCCGCAGAATGT  
GGAGATTGTGGACATTCGGGCTCGGCAGCTGACCCTGCAGTGGGAACCTTTGGCTATGCAGTGACCCGC  
TGCCACAGCTACAACCTCACAGTGCAGTACCAGTACGTGTTCAACCAGCAGCAGTATGAAGCTGAAGAGG  
TGATCCAGACATCTCCCACTATACCCTTCGGGGTCTACGGCCCTTCATGACCATCAGACTGCGGCTGCT  
ACTGTCCAACCTGAGGGCCGGATGGAGAGTGGAGAGTTGGTGGTACAGACAGAAGAGGATGTTCCAGGA  
GCTGTTCTCTCGAGTCCATCCAAGGGGTCCCTTTGAGGAGAAGATCTACATCCAGTGGAAACCTCCCA



[View online »](#)

ATGAGACCAATGGGGTCATCACACTCTATGAGATTAACACAAGGCTGTGGGCTCACTGGATCCAAGTGC  
TGACCTCTCCAGCCAGAGGGGAAAGGTGTTCAAACCTCCGGAATGAAACCCACCACCTCTTTGTGGGTCTG  
TACCCTGGGACTACCTACTCTTTACCATTCAAGGCCAGCACAGCCAAGGGCTTTGGACCCCCAGTCACTA  
CTCGGATTGCCACCAAGATTTACAGTCCATCAATGCCTGAATATGACGCAGATACCCCACTCAATGAAAC  
AGATAAACCATCACGGTGATGCTCAAACCCGCCAGTCCAGGGGAGCCCCAGTCACTGTTTACCAGCTG  
GTTGTCAAGGAGGAGCGACTCCAGAAGTCTCGGAGAGCAGCTGACATCATTGAGTGTTCCTCAGTACCTG  
TGAGTACCGGAACGCCCTCAACCTCGATTCCGCTACACTACTTTGCTGCTGAGCTGAAGCCCTCCAACCT  
GCCTGTCAACCCAGCCATTTACAGTGGGAGACAACAAGACCTACAATGGCTACTGGAACCCCTCTCTCTCC  
CCATTGAAGAGCTACAGCATCTACTTCCAGGCCCTCAGCAAAGCAAATGGAGAGACAAAAATCAACTGTG  
TGCGTCTGGCTACAAAAGGTGCTTCCACTCAGAATTCTAACACTGTGGAGCCGGAGAAGCAGGTGCGACAA  
CACGGTGAAGATGGCTGGCGTATTGCTGGCCTCCTCATGTTTCATCATCATTCTCTGGGGGTGATGCTG  
ACCATCAAAGGAGAAGAAATGCTTATTCTGACTCCTATTACTTGAAGCTGGCTAAGAAGCAGAAGGAGA  
CCCAGAGTGGAGCCAGAGGGAGATGGTCTGTGGCCTCGACTGACAAGCTACCGCAAGCTCGGCAC  
CAACCGCAATGATGAAGGCTTCTCTCCAGCTCTCAGGATGTTAATGGATTCAATGGCAGCCGTGGGGAG  
CTGTCTCAGCCTACCCTACCATTACAGACTCATCCCTACCGGACTTGTGACCCTGTAGAGATGAGCTATC  
CCCGGGACAGTTCCAGCCTGCCATCCGGGTGGCGGACCTGCTTCAACACATCACCCAGATGAAGAGAGG  
CCAGGGCTACGGGTTCAAGGAGGAATACAGGCCTTACCAGAAGGACAGACAGCTTCGTGGGACACAGCC  
AAGGAAGATGAAAACCGCAATAAGAATCGATACGGAAACATCATATCTTATGACCACTCTCGAGTAAAGC  
TGTTGGTGTGGATGGAGACCCTCACTCAGACTACATCAATGCCAACTACATTGACGGGTACCACCGACC  
CCGGCACTACATTGCAACCCAAGGTCCAATGCAAGAGACGGTGAAGGACTTTTGGAGAATGATCTGGCAG  
GAAAACCTGCCAGCATCGTCAATGGTCAAAAACCTTGTGGAAGTGGGAGGGTGAAGTGTGTCGGATACT  
GGCCAGATGACACAGAGGTCTATGGAGACATTAAGTCAACCTAATAGAAACAGAGCCCCCTGGCAGAATA  
GTCATCCGCACCTTACAGTCCAGAAGAAAGGCTACCATGAGATCCGGGAGCTCCGCCTTCCACTTC  
ACCAGTGGCCTGACCACGGTGTCCCTGCTATGCCACTGGCCTTCTGGGCTTTGTCCGCCAGGTCAAGT  
TTCTCAATCCCCAGAAGCTGGGCCATAGTGGTCCATTGCAGTGTGGAGCCGGGAGGACTGGCTGCTT  
CATTGCGATTGACACCATGCTCGACATGGCTGAGAATGAAGGGTGTGGACATCTTCAACTGTGTGCGT  
GAGCTCCGGGCACAGAGGGTCAACCTGGTGCAGACAGAGGAGCAGTACGTGTTTGTGCAGATGCCATCC  
TGGAAGCATGCCTCTGCGCAATACTGCCATCCCAGTGTGTGAGTTCGCTCTCTACTACAACATCAG  
CAGGCTGGACCCGACACCAACTCCAGCCAGATCAAAGACGAGTTTCAGACACTCAACATTGTGACACCT  
CGAGTGGCCCTGAAGACTGCAGCATTGGGCTTACCCTCCGCAACCATGATAAGAATCGGAGCATGGATG  
TCCTGCCTCTGGACCGCTGTCTACCCTTCTCATCTCAGTAGATGGAGAGTCCAGCAACTACATCAATGC  
AGCACTGATGGATAGCCACAAGCAGCCTGCCGCTTCGTGGTCAACCCAGCATCCTTACCCAACACGGTG  
GCAGACTTCTGGAGGCTGGTGTGATTATAATTGTTTCATCTGTGGTGTGCTGAACGAGATGGATACTG  
CTCAGCTCTGTATGCAGTACTGGCTGAGAAGACCTCCGGGTGTTATGGTCCCATCCAGGTGGAGTTTGT  
CTCTGCAGACATCGATGAGGACATCATCCACAGAATCTCCGGATCTGTAACATGGCTCGGCCACAGGAT  
GGTTATCGTATTGTCCAGCACCTCCAGTACATCGGCTGGCCTGCATACCGGGACACGCCCCCTCTAAGC  
GCTCTCTGCTCAAAGTGGTCCGACGGCTGGAGAATGGCAGGAGCAATACGACGGAAGAGAGGGGGCCAC  
TGTGGTCCACTGCCTAAATGGGGGAGGCCGAGTGAACCTTCTGTGCTATCTGCAGTGTGTGAGATG  
ATCCAGCAGCAGAACATTATTGACGTGTTCCACATTGTGAAAACCTCCGCAACAACAAGTCCAACATGG  
TGGAGACGCTGGAACAGTATAAAATTTGTATATGAGGTGGCACTGGAATATTTAAGCTCCTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR231803 representing NM\_001291151  
 Red=Cloning site Green=Tags(s)

MGSLGGLALCLLRLLLGLQRPPLPGAGAQAAGGCSFDEHYSNCGYSVALGTNGFTWEQINTWEKPMLD  
 PAVPTGSFMMVNSSGRASGQKAHLLPTLKENDTHCIDFHYYFSSRRSSPGALNVVYKVNNGPQGNPVW  
 NVSGVVTGEWVKAELAISTFWPHFYQVIFESVSLKGGHPGYIAVDEVRVLAHPCRKAPHFLRLQNEVNVG  
 QNATFQCIAGGKWSQHDKLWLQQWNGRDALMVTTRVVNHRRF SATVSVADTSQRSISKYRCVIRSDGGSG  
 VSNYAELIVKEPPTPIAPPELLAVGATYLWIKPNANSIIIGDGPIILKEVEYRTTTGTWAETHIVDSPNYK  
 LWHLDPDVEYEIRVLLTRPGEAGTGGPPGPTLTRTKCADPVHGPQNEIVDIRARQLTLQWEPFGYAVTR  
 CHSYNLTVQYQYVFNQQQYEAEEVIQTSSHYTLRGLRPFMTIRLRLLLSNPEGRMESEELVVQTEEDVPG  
 AVPLESIQGGPFEEKIYIQWKPPNETNGVITLYEINYKAVGSLDPSADLSSQRGKVFKLNRNETHLFGVGL  
 YPGTTYSFTIKASTAKGFGPPVTTRIA TKISAPSMPEYDADTPLNETDTTITVMLKPAQSRGAPVSVYQL  
 VVKEERLQKSRRRAADIECFVSPVSYRNASNLDSLHYFAELKPSNLPVTQPFTVGDNKTNGYWNPPLS  
 PLKSYSIYFQALSKANGETKINCVRLATKGASTQNSNTVEPEKQVDNTVKMAGVIAGLLMFIILLGVML  
 TIKRRRNAYSYSYLLKAKKQKETQSGAQREMGPVASTDKPTAKLGTNRNDEGFSSSSQDVNGFNGSRGE  
 LSQPTLTIQTHPYRTCDPVEMSYPRDQFPAIRVADLLQHITQMKRGQGYGFKEEYEALPEGQTASWDTA  
 KEDENRNKNRYGNIISYDHSRVRLVLDGDPHSDYINANYIDGYHRPRHYIATQGPMQETVKDFWRMIWQ  
 ENSASIVMVTNLVEVGRVKCVRYWPDDETEVYGDIKVTLIETEPLAEYVIRTFTVQKKGHEIRELRLFHF  
 TSWPDHGVPCYATGLLGFVRQVKFLNPPEAGPIVVHCSAGAGRTGCFIAIDTMLDMAENEGVVDIFNCVR  
 ELRAQRVNLVQTEEQYVFVHDAILEACLGN TAIPVCEFRSLYYNISRLDPQTNSQIKDEFQTLNIVTP  
 RVRPEDCSIGLLPRNHDKNRSMVDVPLDRCLPFLISVDGESSNYINAALMDSHKQPAAFVVTQHPNPNTV  
 ADFWRLVFDYNCSSVVMNLNEMDTAQLCMQYWPEKTSGCYGP IQVEFVSADIDEDIHRIFRICNMARPQD  
 GYRIVQHLQYIGWPAYRDTPPSKRSLKVVRRLEKQEQYDREGRTVVHCLNGGGRSGTFAICISVCEM  
 IQQNIIDVFHIVKTLRNNKSNMVETLEQYKFFVEVALEYLSSF

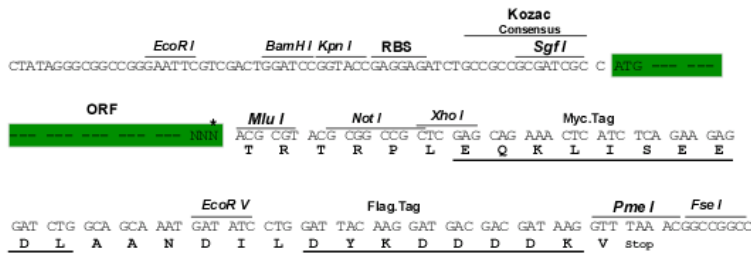
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

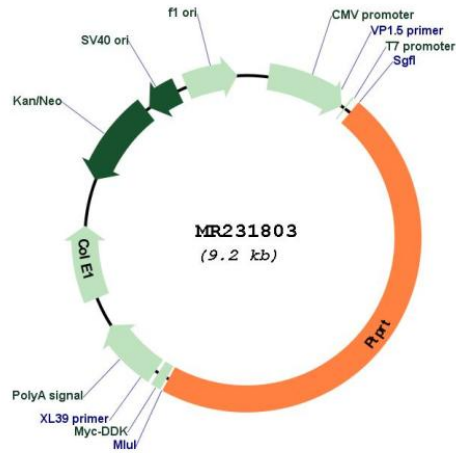
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM\_001291151

ORF Size: 4332 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\\_001291151.1](#), [NP\\_001278080.1](#)

**RefSeq Size:** 12126 bp

**RefSeq ORF:** 4335 bp

**Locus ID:** 19281

**Cytogenetics:** 2 81.91 cM

**MW:** 162.8 kDa

**Gene Summary:** May be involved in both signal transduction and cellular adhesion in the CNS. May have specific signaling roles in the tyrosine phosphorylation/dephosphorylation pathway in the anterior compartment of the adult cerebellar cortex.[UniProtKB/Swiss-Prot Function]