

Product datasheet for MC224452

Ptprt (NM_021464) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptprt (NM_021464) Mouse Untagged Clone
Tag:	Tag Free
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
Fully Sequenced ORF:	>MC224452 representing NM_021464 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGAGCCTTGGCGGGCTCGCCCTCTGCCTGCTCCGGCTCCTGCTCCTGGGGCTGCAGCGCCCGCGT
TGCCCGGGCGCGGAGCGCAGAGCGCCGAGGTGGCTGTTCTTTGACGAACATTACAGCAACTGCGGGTA
TAGCGTGGCTCTGGGAACCAATGGGTTTACCTGGGAGCAGATTAACACATGGGAGAAGCCAATGCTGGAC
CCAGCTGTGCCACAGGGTCCTTCATGATGGTGAACAGCTCTGGAAGGGCTTCAGGCCAGAAAGCCCATC
TCTTCTGCCAACCTTGAAGGAGAATGACACTCACTGCATTGACTTCCATTACTACTTCTCCAGTCGAGA
TCGCTCCAGCCCGGGAGCCTTGAATGTCTACGTGAAGGTGAATGGTGGACCCCAAGGGAACCCTGTCTGG
AACGTATCTGGCGTCTGACTGAGGGCTGGGTGAAGGCAGAGCTTGCCATCAGCACCTTCTGGCCTCATT
TCTATCAGGTGATATTTGAATCCGTCTCTTTGAAAGGTCATCCTGGTTACATCGCTGTGGACGAAGTTCC
GGTCCCTTGCTCATCCATGCAGAAAAGCACCTCATTTCTGCGACTCCAAAACGTTGAGGTGAATGTGGGG
CAGAACGCCACGTTTCAGTGCATTGCTGGTGGAAAGTGGTCCCAGCATGACAAAACCTTTGGCTCCAGCAAT
GGAATGGCAGAGACACAGCCCTCATGGTCACCCGGGTGGTCAACCACAGACGCTTCTCAGCCACAGTGAG
TGTGGCAGACACCTCTCAACGCAGTATCTCAAGTATCGCTGCGTGATCCGCTCAGATGGTGGGCTCGGT
GTGTCCAACATATGCAGAGCTGATTGTGAAAGAGCCTCCCACGCCATTGCTCCCCGGAACACTACTGGCCG
TGGGTGCCACCTACCTGTGGATTAACCAAAATGCCAACTCCATTATTGGGGATGGCCCCATCATACTGAA
GGAGGTAGAATACCGCACAACCACAGGAACCTGGGCCGAGACCCACATCGTGGACTCTCCAACACTACAAG
CTCTGGCATCTGGACCCTGATGTGGAGTATGAGATCCGGGTGCTGCTCACACGACCAGGAGAGGGGGCA
CAGGACCACCAGGACCACCCTAACTACCAGGACCAAGTGTGCCGATCCCGTGCATGGCCCGCAGAATGT
GGAGATTGTGGACATTCGGGCTCGGCAGCTGACCCTGCAGTGGGAACCTTTGGCTATGCAGTGACCCGC
TGCCACAGCTACAACCTCACAGTGCAGTACCAGTACGTGTTCAACCAGCAGCAGTATGAAGCTGAAGAGG
TGATCCAGACATCTTCCACTATACCCTTCGGGGTCTACGGCCCTTCATGACCATCAGACTGCGGCTGCT
ACTGTCCAACCTGAGGGCCGGATGGAGAGTGGAGAGTTGGTGGTACAGACAGAAGAGGATGTTCCAGGA
GCTGTTCTCTCGAGTCCATCCAAGGGGTCCCTTTGAGGAGAAGATCTACATCCAGTGGAAACCTCCCA



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ATGAGACCAATGGGGTCATCACACTCTATGAGATTAACAAGGCTGTGGGCTCACTGGATCCAAGTGC
 TGACCTCTCCAGCCAGAGGGGAAAGGTGTTCAAACCTCCGGAATGAAACCCACCACCTCTTTGTGGGTCTG
 TACCCTGGGACTACCTACTCTTTACCATTCAAGGCCAGCACAGCCAAGGGCTTTGGACCCCCAGTCACTA
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 GTTGTCAAGGAGGAGCGACTCCAGAAGTCTCGGAGAGCAGCTGACATCATTGAGTGTTCAGTACCTG
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 GCCTGTCAACCCAGCCATTTACAGTGGGAGACAACAAGACCTACAATGGCTACTGGAACCCCTCTCTCC
 CCATTGAAGAGCTACAGCATCTACTTCCAGGCCCTCAGCAAAGCAAATGGAGAGACAAAAATCAACTGTG
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 CACGGTGAAGATGGCTGGCGTATTGCTGGCCTCCTCATGTTTATCATCATTCTCTGGGGGTGATGCTG
 ACCATCAAAGGAGGAAGCTGGTAAGAAGCAGAAGGAGACCCAGAGTGGAGCCAGAGGGAGATGGGTC
 CTGTGGCCTCGACTGACAAGCCTACCGCAAGCTCGGCACCAACCGCAATGATGAAGGCTTCTCTCCAG
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 GGGTGGCGGACCTGCTTCAACACATCACCCAGATGAAGAGAGGCCAGGGCTACGGGTTCAAGGAGGAATA
 CGAGGCCCTTACCAGAAGGACAGACAGCTTCGTGGGACACAGCCAAGGAAGATGAAAACCGCAATAAGAAT
 CGATACGGAAACATCATATCTTATGACCACTCTCGAGTAAGGCTGTTGGTGTGATGGAGACCCTCACT
 CAGACTACATCAATGCCAACTACATTGACGGGTACCACCAGCCCGGCACTACATTGCAACCCAAGGTCC
 AATGCAAGAGACGGTGAAGGACTTTTGGAGAATGATCTGGCAGGAAAACCTCTGCCAGCATCGTCATGGTC
 ACAAACCTTGTGGAAGTGGGAGGGTGAAGTGTGTCGATACTGGCCAGATGACACAGAGGTCTATGGAG
 ACATTAAGTACCCTAATAGAAACAGAGCCCCGGCAGAATACGTATCCGCACCTTACAGTCCAGAA
 GAAAGGCTACCATGAGATCCGGGAGCTCCGCCTTCCACTTACCAGCTGGCCTGACCAGGTGTTCCCT
 TGCTATGCCACTGGCCTTCTGGGCTTTGTCCGCCAGGTCAAGTTTCTCAATCCCCCAGAAGCTGGGCCCA
 TAGTGGTCCATTGCAGTGTGGAGCCGGGAGGACTGGCTGCTTATTGCGATTGACACCATGCTCGACAT
 GGCTGAGAATGAAGGGTGTGGACATCTTCAACTGTGTGCGTGAGCTCCGGGCACAGAGGGTCAACCTG
 GTGCAGACAGAGGAGCAGTACGTGTTTGTGCAGATGCCATCCTGGAAGCATGCCTCTGCGGCAATACTG
 CCATCCCAGTGTGTGAGTCCGCTCTCTACTACAACATCAGCAGGCTGGACCCGACAGACCACTCCAG
 CCAGATCAAAGACGAGTTTCCAGACTCAACATTGTGACACCTCGAGTGGCCTGAAGACTGCAGCATT
 GGGCTCTTACCCCGGAACCATGATAAGAATCGGAGCATGGATGTCCTGCCTCTGGACCGCTGTCTACCT
 TCCTCATCTCAGTAGATGGAGAGTCCAGCAACTACATCAATGCAGCACTGATGGATAGCCACAAGCAGCC
 TGCCGCCTTCGTGGTCAACCCAGCATCCTTACCCAACACGGTGGCAGACTTCTGGAGGCTGGTGTGAT
 TATAATTGTTTCTGTGGTGTGCTGAACGAGATGGATACTGCTCAGCTCTGTATGCAGTACTGGCCTG
 AGAAGACCTCCGGGTGTTATGGTCCCATCCAGGTGGAGTTTGTCTCTGCAGACATCGATGAGGACATCAT
 CCACAGAACTTCCGGATCTGTAACATGGCTCGGCCACAGGATGGTTATCGTATTGTCCAGCACCTCCAG
 TACATCGGCTGGCCTGCATACCGGGACACGCCCCCTTAAGCGCTCTCTGCTCAAAGTGGTCCGACGGC
 TGGAGAAATGGCAGGAGCAATACGACGGAAGAGAGGGGCGCACTGTGGTCCACTGCCTAAATGGGGGAGG
 CCGCAGTGAACCTTCTGTGCTATCTGCAGTGTGTGTGAGATGATCCAGCAGCAGAACATTATTGACGTG
 TTCCACATTGTGAAAACCTCCGCAACAACAAGTCCAACATGGTGGAGACGCTGGAACAGTATAAATTTG
 TATATGAGGTGGCACTGGAATATTTAAGCTCCTTTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_021464
 Insert Size: 4308 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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:	<p>NM_021464.5, NP_067439.1</p>
RefSeq Size:	<p>12099 bp</p>
RefSeq ORF:	<p>4308 bp</p>
Locus ID:	<p>19281</p>
UniProt ID:	<p>Q99M80</p>
Cytogenetics:	<p>2 81.91 cM</p>
Gene Summary:	<p>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] Transcript Variant: This variant (4) lacks an alternate in-frame exon in the central coding region, compared to variant 1, resulting in an isoform (d) that is shorter than isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>