

Product datasheet for **MC224088**

Ptprd (NM_001014288) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ptprd (NM_001014288) Mouse Untagged Clone
Tag: Tag Free
Symbol: Ptprd
Synonyms: 1110002J03Rik; 3000002J10Rik; B230219D21Rik
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224088 representing NM_001014288
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAGGTGGAAGTGTAAATATCACCTGTGTGGCAGTGGGGTCACCAATGCCTTATGTGAAGTGGATGT
 TGGGGGCAGAAGATCTGACACCAGAAGATGATATGCCGATAGGACGAAATGCCTAGAAGTGAATGACGT
 AAGACAGTCAGCAAATTACACCTGTGTTGCTATGTCGACGTTGGGGGTCATTGAAGCAATAGCCCAGATC
 ACTGTCAAAGCCTTACCCAAGCCTCCAGGAACTCCTGTAGTGACCGAGAGCACAGCTACAAGCATCACAC
 TAACATGGGACTCTGGGAATCCTGAGCCTGTCTTACTACATCATTAGCATAAGCCTAAAAATTTCTGA
 AGAACCATATAAAGAAATTTGATGGGATAGCCACCACACGCTACAGTGTGCGCGGATTAAGTCCCTACTCG
 GATTATGAATTTAGAGTTGTTGCTGTCAATAACATTGGACGAGGCCAGCAAGTGAAGCCTGTGTTAACTC
 AGACCTCAGAACAAGCACCATCCAGTGCCCCACGGGATGTTGAGGCACGCATGTTGAGCTTACCACCAT
 TCTGGTACAATGGAAGGAACCTGAGGAGCCAAATGGACAGATCCAAGGGTATAGAGTTTATTATACAATG
 GACCCCACTCAGCATGTCAACAACCTGGATGAAACACAATGTAGCTGATAGCCAAATCACTACTATTGGCA
 ATTTAGTACCCCAAAAAACATACTCTGTCAAAGTCTGGCTTTTACCTCAATTGGAGATGGACCTTTTC
 TAGTGATATACAAGTCATCACTCAGACAGGAGTACCAGGGCAGCCACTAACTTCAAAGCAGAACCCTGAA
 TCTGAAACAAGTATTTTGTCTGTCTGGACACCGCCACGATCAGATACCATTGCCAGCTATGAACTAGTCT
 ACAGAGATGGGGATCAAGGAGAAGAGCAGCGAATCACCATTGAGCCAGGCACATCTTATAGGCTTCAAGG
 GCTGAAACCAAACAGCCTGTACTACTTCCGTCTGTCTGCACGCTCTCCTCAAGGCCTGGGTGCTTCTACA
 GCTGAAATATCAGCTAGAACCATGCAATCAATGTTTGCAAAAAATTTTCATGTCAAAGCAGTTATGAAGA
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 TGATGGGAAAATGGTGAAGAAGTGGATGGCCGAGCTACCCAGAAGCTGATTGTTAACCTGAAGCCTGAG
 AAGTCATATTCTTTGTGTTAACCAATCGTGGGAACAGTCTGGTGGATTGCAGCATAGGGTGACAGCAA
 AGACTGCCCCAGATGTGCTCCGCACCAAGCCTGCCTTCATTGGGAAGACAACTGGATGGCATGATTAC
 TGTGCAACTGCCTGATGTTCTGCAAAATGAAAACATAAAGGGTTACTACATTATAATTGTGCCTTTGAAG
 AAGTCGCGTGGGAAATTCATCAAGCCCTGGGAGAGCCCTGATGAGATGGAGTTAGATGAGCTGCTTAAGG



AGATATCTAGAAAACGCAGAAGCATTTCGTTATGGAAGAGAAGTTGAATTAAGCCATATATTGCTGCTCA
 CTTTGATGTCCTTCCCCTGAGTTCACCCTGGGGATGACAAACATTATGGTGGATTTACGAACAAACAG
 CTCCAAAGTGGACAAGAAATATGTCTTCTTTGTGTTAGCAGTGTGGACCATGCAGAGTCTAAGATGTATG
 CAACCAGCCCATACTCCGACCCTGTTGTGTCAATGGATCTGGATCCACAGCCAATCACAGACGAAGAGGA
 AGGCTTGATATGGGTCGTAGGTCCTGTCCTTGCAGTGGTGTTCATCATCTGTATTGTGATTGCTATTCTT
 CTTTATAAAAAGGAAGAGGGCAGAGTCGGAGTCCAGAAAGAGCAGCTTACCAAACAGTAAGGAGGTCCCTT
 CACACCACCAACCGACCAGTAGAACTGAGGCGCCTTAACTTTCAAACACCAGGTATGGCTAGCCATCC
 TCCAATACCTATCTTGGAACTTGACAGATCATATTGAGAGGTTGAAAGCAAATGATAACCTGAAGTTTTCC
 CAGGAATATGAGTCAATTGACCCTGGCCAGCAGTTCACATGGGAACACTCAAACCTTGAAGTAAACAAAC
 CAAAGAACAGATATGCAAATGTCATTGCATACGATCACTCCCGGTTCTCTTATCAGCAATAGAAGGAAT
 CCCAGGAAGTACTATGTGAATGCCAATACATAGATGGCTATAGGAAACAAAATGCCTATATTGCAACC
 CAGGGATCTCTTCTGAAACATTTGGGGACTTTTGGAGAATGATATGGGAGCAACGAAGTCCACAGTTG
 TCATGATGACAAAGCTAGAAGAAAGGTCGAGGGTGAAGTGTGACCAGTATTGGCCAGCAGAGGCACAGA
 AACTCACGGGCTGGTCCAGGTGACGCTGCTGGATACTGTGGAGCTTGCCACATACTGTGTCCGGACATTT
 GCACCTTTATAAGAATGGATCGAGTGAGAAGAGGGAAGTGAGACAATCCAGTTCACCGCCTGGCCTGATC
 ATGGTGTTCAGAGCACCCACACCTTTCTAGCTTTCTACGGAGAGTCAAACCTGCAATCCTCCAGA
 TGCAGGGCCAATGGTGGTACACTGCAGTCTGGTGTGGCAGAAGTGGCTGCTTCATTGTAATAGATGCC
 ATGTTAGAAAAGATAAAGCATGAAAAACTGTAGATATTTATGGCCATGTAACCTTAATGAGAGCCCAGA
 GGAATTACATGGTACAAACAGAAGACCAGTACATCTTTATCCATGATGCACTGTTAGAAGCAGTGACATG
 TGGAAATACCGAAGTGCCGGCTAGAAACTTGTATGCCTACATTCAGAAGCTGACACAAATAGAAACAGGG
 GAGAATGTCACCGAATGGAGCTCGAATTTAAGCGTCTAGCCAGCTCAAAGCTCACACCTCAAGATTCA
 TCAGTGCCAATCTTCCATGTAATAAATTCAAAAACCGCCTTGTAAATATTATGCCATATGAATCCACAAG
 GGTGTCCCTGCAGCCTATCCGAGGAGTTGAAGGCTCTGATTACATCAATGCCAGTTTCTTGTGGATAT
 AGACAACAGAAAAGCCTACATTGCTACCCAGGGGCCCTTAGCAGAGACAACCTGAAGACTTTTGGCGCATGC
 TTTGGGAACACAATTCCACCATCGTTGTGATGCTACCAAGCTGAGAGAAATGGGCAGAGAGAAATGTCA
 CCAGTACTGGCCAGCTGAACGATCTGCAAGATACCAGTATTTTGTGTAGATCCCATGGCTGAATATAAC
 ATGCCTCAGTATATCCTGAGGGAATCAAGGTCACGGATGCCAGGGATGGCCAGTCCCGAACAGTGAGGC
 AGTTCAGTTCAGTACTGACTGGCCAGAACAAGGAGTGCCAAAGCTGGAGAAGGATTTATTGACTTCATTGG
 CCAAGTCCATAAAACAAAGGAGCAGTTTGGCCAAGATGGGCCATTTCCGTGCATTGCAGTGCCGGCGTT
 GGAAGAAGTGGAGTTTTTATAACATTGAGTATTGTGTTGAAAGAATGAGATATGAAGGGTGGTAGATA
 TCTTCCAGACTGTCAAATGTTAAGAACAACGACCAGCCATGGTACAACAGAGGATCAATACCAGTT
 CTGCTATCGAGCCGCACTAGAATACCTGGGCAGCTTTGATCACTATGCAACGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
 ACCN: NM_001014288
 Insert Size: 3765 bp

OTI Disclaimer: 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.

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](#)

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_001014288.2](#), [NP_001014310.1](#)

RefSeq Size: 7678 bp

RefSeq ORF: 3765 bp

Locus ID: 19266

Cytogenetics: 4 36.94 cM

Gene Summary: Can bidirectionally induce pre- and post-synaptic differentiation of neurons by mediating interaction with IL1RAP and IL1RAPL1 trans-synaptically (PubMed:25908590). Involved in pre-synaptic differentiation through interaction with SLITRK2 (PubMed:25989451).
[UniProtKB/Swiss-Prot Function]