

Product datasheet for MC224082

Ppfia2 (NM_177373) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ppfia2 (NM_177373) Mouse Untagged Clone
Tag: Tag Free
Symbol: Ppfia2
Synonyms: 5330438O12; B230207K17Rik; E130120L08Rik; mKIAA4112
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224082 representing NM_177373
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGATGTGTGAAGTGATGCCACGATTAACGAGGACACCCCAATGAGCCAACGGGGTCCCAAAGCAGTG
 GCTCCGACTCGGACTCCCATTTTGGAGCAACTCATGGTCAATATGCTGGATGAAAGGGACCGCCTACTGGA
 CACTCCGAGAGACCCAGGAGAGCCTCTCACTTGCCAGCAAAGGCTCCAGGATGTCATCTATGACAGA
 GATTCCTCCAGAGACAGCTGAATTCAGCCCTACCTCAGGACATCGAATCCCTAACAGGAGGGCTGACTG
 GTTCTAAGGGGGCTGATCCACCGGAGTTTGTCTGCACTGACTAAAGAGTTGAATGCTTGCCGTGAACAAC
 TCTAGAAAAGGAAGAAGAAATCTCAGAGCTGAAAGCCGAAAGAAACAACAAGACTGTTACTGGAACAC
 TTGGAGTGCCTTGTGTCGACATGAACGGTCACTAAGAATGACGGTGGTCAAGCGGCAAGCCAGTCTC
 CCTCTGGAGTGTCCAGTGAAGTGGAGTTCTCAAGGCACTGAAATCTTTGTTTGAACACCACAAAGCCTT
 GGATGAAAAGGTAAGGGAGCGACTGAGGGTTTCTTTAGAAAGAGTCTCTGCACTGGAAGAGGAAGTACT
 GCAGCTAATCAGGAGATTGTTGCCTTGCCTGAGCAAAATGTTCAATTCAAAGGAAAATGGTATCAAGTG
 AGGGTCCACGGAGTCAGAGCATTTGAAGGAATGGAAGCAGGCCAGAAAGTTCATGAAAAGCGTCTATC
 CAATGGCTCCATAGATTGACAGATGACACCAGCCAAATCGTCGAGTCAAGAATTGCTTGAGAAGCAA
 AACTATGAAATGGCCAAATGAAAGAACGCTTAACAGCTCTCTCTCCCGGGTGGGAGAGGTGGAACAAG
 AAGCAGAGACAGCAAGAAAGGACCTCATTAACAGCAAGAAATGAACACAAAATATCAAAGGACATCCG
 AGAGGCCATGGCTCAGAAGGAAGATATGGAAGAAAGAAATCACAACCTCTGGAGAAGCGTTACCTGAGTGT
 CAGAGAGAATCTACCTCCATTATGATATGAATGATAAACTAGAAAATGAATTGGCGAACAAGGAAGCCA
 TCTTGCGGCAGATGGAAGAAAAAACAGGCAATTGCAAGAGCGTCTTGAAGTGGTGGAGCAAAAAGTTACA
 GCAGACCATGAGAAAAGCTGAACTTTACCTGAAGTAGAGGCTGAACTTGTCTCAGAGAATTGCAGCCCTA
 ACAAAAGGCTGAAGAGAGGCGATGGAATATTGAAGAACGTATGAGACACCTCGAGGGCCAAGTTGAAGAGA
 AGAATCAAGAAGTTCAAAGAGCTAGACAAAGGGAGAAAATGAATGAAGAGCATAATAAGAGATTATCGGA
 TACGGTGGACAGGCTTCTGACAGAATCCAATGAGCGCCTGCAACTACACCTGAAGGAAAGGATGGCTGCT
 TTGGAAGAGAAGAATGTTTTGATTCAAGAATCAGAAAACCTCAGAAAAATCTTGAAGAGTCTTACATG



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ATAAGGAAAGATTAGCAGAAAGAAATCGAGAAGCTGAGGTCTGAACTTGATCAAATGAAAATGAGAACAGG
 TTCTCTAATTGAACCCACTATATCAAGAACTCATATAGACACCTCCACTGAGTTGCGGTATTTCAGTTGGG
 TCCCTTGTAGACAGCCAGTCTGATTACAGAACCACTAAAGTAATACGAAGACCAAGGAGAGGCCGCATGG
 GTGTGCGAAGAGATGAACCAAAGGTGAAATCCCTTGGAGATCATGAGTGGAACAGAACTCAGCAAATTTGG
 AGTACTAGGAAGCCACCCCTTTGAAAAGTGAACCTGAAATGTCTGATATTGATGATGACAGAGAAACA
 ATTTTTAGCTCAATGGATCTTCTCTCCAAGTGGCCATTCTGATGCCAGACTCTAGCTATGATGCTTC
 AAGAACAATTGGATGCAATCAATAAAGAAATAAGACTAATTCAAGAAGAAAAGGAATCGACAGAATTTGG
 TGCTGAAGAAATTGAGAATAGAGTGGCTAGTGTAAAGCTTGAAGGGCTGAATTTGCGAGGGTCCATCCA
 GGTACCTCCATCACTGCCTCTGTACAGCTTCATCACTGGCCAGTTCATCTCCCCAAGTGGACACTCAA
 CGCCAAAGCTTACACCAAGAAGCCCTGCCAGGGAAATGGACCGCATGGGAGTGATGACCCTGCCAAGTGA
 TCTAAGGAAACATCGGAGAAAGATTGCAGTGGTGAAGAAGATGGACGGGAGGATAAAGCCACAATTA
 TGCGAGACTTCTCTCCCCAACACCCAGAGCCGTGAGAACTGACTCACACCTTACCATCTTCTACCACA
 ATGATGCCCGGAGTTTATCTGCCTCTTGTAGCCAGACAGTCTTGGGCTTGGCAGTGCCAAATGACAGCCA
 AGATTCTCTCACAAAGCCCAAGAAGAAGGAATCAAGTCTTCAATTGGGCGCTTATTTGGGAAAAA
 GAGAAGGCTCGACTCGGGCAGCTTCGAGGCTTCATGGAGACAGAAGCTGCAGCACAGGAATCCCTGGGCT
 TAGGCAAACCTTGGAACTCAAGCTGAAAAGGACAGAAGGCTGAAGAAAAAGCATGAACTTCTTGAAGAAGC
 TCGTAGAAAAGGATTACCTTTTGCCAGTGGGATGGACCCACCGTGGTTGCGTGGCTGGAGCTCTGGCTG
 GGAATGCCAGCTTGGTACGTGGCAGCATGCAGAGCCAACGTGAAAAGTGGTGGCCATCATGTCAGCGTTAT
 CGGACACTGAAATCCAAAGGGGAGATTGGAATCAGCAACCCCTGCACCGCTTAAAGCTCAGGCTAGCTAT
 CCAAGAGATGGTTTCTCTACCAGCCCTCAGCGCCTCCGACATCGCGTACTCCTCAGGCAATGTGTGG
 GTGACCCATGAAGAAATGAAAAATCTGACAGCTCCAGCAAAAACGAAAGAATCTGAGGAAGGAAGCTGGG
 CCCAGTGTCCGGTTTTCTACAGACCCTGGCTTATGGAGATATGAACCACGAGTGGATTGGAATGAATG
 GCTTCCCAGCTGGGGTTACCTCAATACAGAAGTTACTTTATGGAATGCTTGGTTGATGCAAGAATGTTA
 GACCACCTCACAAAAAGGATCTTCGTGCCATTTAAAAATGGTGGATAGTTTCCATCGAACAAAGTTTAC
 AGTATGGAATTATGTGCTTGAAGAGATTGAATTATGACAGAAAAGAACTAGAGAGAAAGACGAGAAGCAAG
 TCAACATGAAATAAAGATGTTTTAGTGTGGAGCAATGATCGAGTTATTCGCTGGATACAAGCAATTGGA
 CTTCCGGGAATATGCAAACAACATTTCTGAGAGTGGCGTGCATGGCTCACTTATAGCCCTGGATGAGAACT
 TTGACTACAGCAGCTTGGCTCTATTGTTGCAGATTCCAACACAGAACACCCAGGCAAGGCAGATTCTTGA
 ACGTGAGTACAACAACCTCTTGGCCCTGGGAAGTGAAGCGGAGACTGGATGAAAGTACGACAAGAATTT
 AGACGGGGATCAACCTGGCGAAGGCAGTCCCTCCTCGTGAAGTTCATGGAATCAGCATGATGCCTGGGT
 CCTCAGAAACATTACCAGCTGGATTGAGTTGACCACAACGTCTGGGCAGTCCAGGAAAAATGACGACAGA
 CGTTGCTTCATCAAGACTGCAGAGGTTAGACAACCTCCACTGTTCCACATACTCATGTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

ACCN:

NM_177373

Insert Size:

3771 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_177373.4](#), [NP_796347.2](#)

RefSeq Size: 6451 bp

RefSeq ORF: 3771 bp

Locus ID: 327814

UniProt ID: [Q8BSS9](#)

Cytogenetics: 10 D1

Gene Summary: Alters PTPRF cellular localization and induces PTPRF clustering. May regulate the disassembly of focal adhesions. May localize receptor-like tyrosine phosphatases type 2A at specific sites on the plasma membrane, possibly regulating their interaction with the extracellular environment and their association with substrates (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the central coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.