

Product datasheet for **MC229538**

Frmpd4 (NM_001290428) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Frmpd4 (NM_001290428) Mouse Untagged Clone
Tag: Tag Free
Symbol: Frmpd4
Synonyms: Gm196; Pdzd10; Pdzk10; PKAP1; preso; Preso1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC229538 representing NM_001290428
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGACAAACCGAGATGGACGTGACTACTTCATCAATCACATGACACAGGCAATCCCATTGATGACC
 CTCGGTTTGACAGCTGCCAAATCATCCCCAGCTCCACGAAAGGTGGAGATGAGGAGAGACCCTGTGCT
 GGGCTTTGGGTTTGTGGCAGGGAGCGAAAAGCCAGTGGTTCGGTCAGTAACACCAGGTGGCCCTCA
 GAAGGCAAGCTGATCCCAGGAGATCAGATTGTAATGATTAATGATGAAGCAGTCAGCGCTGCACCAAGAG
 AGAGAGTCATCGACCTGGTCAGGAGCTGCAAGAATCGATTCTGCTCACTGTCATTTCAGCCATATCCATC
 TCCCAATCAGCATTTATCAGTGTCTGTAAGGCAAGATTGAAGTCCAATCCAGTCAAAGTGCCTTT
 TCCGAAGAGGTCATAATCAATGGCCAAGTGTGGAAACTGTTAAAGACAATTCACCTCTTTTTATGCCAA
 ATGTTTTGAAAGTCTATTTGAAAACGGACAGACCAAAATCCTTTTCGTTTTGACTGCAGCACCTCCATCAA
 GGATGTCATCTTAACCTGCAAGAGAAGTTGTCTATCAAAGGCATTGAACACTTCTCCCTCATGTGGAG
 CAGAGAATTGAAGGGCTGGCACCAAGCTGCTTTGCTTTCATGAACAGGAGACACTCACTCAGGTGACAC
 AGAGGCCAGCTCCATAAGATGAGGTGCTTTTCCGAATCAGTTTTGTTCCCAAAGATCCCATTTGACCT
 GTTAAGAAGAGATCCAGTTGCTTTTGTAGTATCTCTATGTTTCAGAGTTGTAACGATGTCGTTTCAGGAGCGA
 TTTGGACCAGAGCTGAAATATGACATTGCCTTGGCGCTGGCCGCTTACAATGTACATTGCTACTGTCA
 CCACCAACAGACGCAGAAAATCTCCCTCAAATACATTGAGAAAGAAATGGGGACTAGAGACTTTTCTTCC
 ATCTGTGTGCTGCAGAGCATGAAAGAGAAGAATCAAGAAAGCACTCTCCACCTTGTCAAAGCAAAT
 CAAAATTGGTACCACCGGTAAAAAGCTCTGCACTACAAGCTAAGGTCCACTATCTCAAGTTCTCTCA
 GCGACCTGCGACTATATGGGGCCGTGATTCAAGGCAACATTAGTGCAGGCAGAGAAGCGCTCAGAAGT
 AACTCTTCTGGTTGGTCCCCGGTATGGCATAAGCCATGTCATAAACACCAAAACCAATCTGGTGGCTCTT
 TTAGCTGACTTCAGCCATGTCAACAGGATTGAAATGTTTACTGAAGAGGAGAGCTTGGTGAGGGTGGAGT
 TGCATGTGCTAGATGTGAAGCCATTACACTACTTATGGAGTCATCAGACGCCATGAACCTGGCCTGTCT
 GACAGCTGGATACTACCGCTGCTTGTGGACTCCAGGAGGTCAATATTTAACATGGCCAACAAGAAAAAC
 GCAGGCACGCAGGACACAGGATCAGAAAATAAAGGCAAGCATAATCTCCTTGGTCTGATTGGAAGTGTGA



[View online »](#)

TGCCCCAGATGACCACCTTCATTGGTGAAGGCGAACAAGAAGCCCAAATCACATATATAGATTCTAAGCA
 GAAGACAGTTGAGATGACAGACAGCACCTTGTGTCCCAAAGAGCACCGGCACTTATATATCGACAACTCA
 TACAGTTCAGATGAACTTAACCAGCCGCTGACTCAGCCAGGTGATGCCCCCTGTGAGGCCGACTATAGAA
 GTCTAGCTCAGCGGTCCCTTTTGACCCTCTCAGGACCAGACACTCTGAAGAAAGCACAGGAATCTCCGCG
 AGGAGCTAAAGTGCCTTATTTTTGGAGATCTTGCCTTAGATGATGGCATGAGTCCCCAACTATAGGC
 TATGAAAGAATGTTAGAGGAGAATCCAGAAATGCTGGAGAAGCAGAGGAATCTCTACATCAGCAGTGCCA
 ATGACATGAAGAACCTGGACCTCACTCCAGACACAGACAGCATCCAGTTTGTGGCAAATCTGTATATGC
 AAACATAGGTGATGTGAAGAATTTGAGGCCCTGAGGGGATAGAGGAGCCCTCTTACATGACATCTGT
 TATGCAGAAAATACGGACGATGCAGAAGATGAAGATGAGGTGAGCTGCGAGGAGGACCTCGTGGTGGTG
 AAATGAACCAACCAGCCATCCTTGACCTGTCCGGGTCAAGTGATGACATTATTGACCTCACAAACCCTGCC
 TCCTCCAGAAGGAGATGACAATGAGGATGACTTCTCCTCGCTTCTGAAACATGGCCATCGCTGCTCCC
 CCACCTGGCTTTAGAGACAGTTCTGATGAAGAGGACACTCAGAGCCAGGCAACGCTCTTCCATGAGGACA
 AAGAACAAGGCAGCAGCCTGCAGAATGAGGAGATCCCTGTGTCCCTCATTGATGCTGTGCCACCAGTGC
 AGAGGGCAAGTGTGAGAAGGACTGGACCTGCCGTGTTCCACACTGGAAGCCCTAGAAGCTCTTTCA
 GAAGAACAGCAGAAGAGTAAAAATTCAGGTGTAGCCATCTTGCGAGCTTATAGTCCCGAGTCTTCATCAG
 ACTCGGGCAATGAGACTAACTCTTCTGAAATGACAGAGGGTTCTGAGCTAGCTGCAGCACAGAAGCAGTC
 GGAAAGCCTCTCCCGCATGTTCTTGCCACTCATGAAGGCTATCACCTCTGGCAGAAGAGCAGACAGAG
 TTCCCCACCTCCAAAGCCCCCTCAGTGGCTTGCCTCCAAAGTCTCCCATGGCCTGGCTGCTCGCCAG
 CGACCGACCTCCCACCAAAGTTGTGCCTTCCAAGCAGATCCTTCACTCAGACCACATGGAATGGAGCC
 AGAAACCATGGAGACCAAGTCTGTCACTGACTATTTTAGCAAAGTGCATATGGGGTCAGTAGCATATTCC
 TGTACCAGCAAAAGGAAAAGCAAGCTTCTGAGGGAGAGGGGAAATCCCCCTGAGTGGGAATATACCAG
 GGAAAAACAGCAGGGAACCAAAATAGCAGAGATAGAGGAGGACACCAAGGCAAAGCTGGCAGTGTGC
 TTCAAGAGACAATCCACACCTCAGCAGCTTTAACCTAGAGAGAAGTGCCTTTTCGCAAGGACAGCCAAAGA
 TGGTATGTGGCCTCTGATGGTGGGTGGTAGAGAAAAGTGAATGGAAGCACAGCCATGAAAGTCTTTC
 CCAGAGGTCCAGGCTTGGTAACAGAGAGGCTGAAGGAAAGAGGATGGCACTGTGGAAGGAGGGCTGA
 TGATGCTTCACTACTTGGCCAAGGGGACCGCTTCTCACAGACATGGCCTGTGTAGCCTCAGCCAAAGAC
 TTAGATAACCCCGAAGATACTGACTCTCCCTCTTGTGACCATGCCACTAAGCTTTCTGAGGCTGAAGACA
 ATGTGGCCCGCTTTGTGACTACCATTTGGCCAAGCGAATGTCATCCCTGCAGAGTGAGGGCCATTTTTC
 TCTACAGAGCTCTCAAGGCTCTCAGTGGACACAGGCTGTGGACCGGCAGCAGTAGCAGTGCCTGTGCC
 ACTCCTGTGGAATCGCCCTCTGCCGTCATGGGGAAGCACATGATTCCAGATGCTTCTGGGAAAGGAG
 GGAGATATATTTACCAGAGGAGAGAGCCCTGGCCATCCAACCATGGAGCCACCTTCAGGAACTGCA
 CCCACAGACAGAAGGGATGTGTCCACGCATGACAGTGCCTGCTCTGCACACAGCCATTAATGCCGACCCC
 CTGTTTGGCACTTTGAGAGATGGATGCCATCGACTGCCAAGATTAAGGAAACCACAGTGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001290428
- Insert Size:** 3843 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001290428.1](#), [NP_001277357.1](#)

RefSeq Size: 8156 bp

RefSeq ORF: 3843 bp

Locus ID: 333605

UniProt ID: [A2AFR3](#)

Cytogenetics: X F5

Gene Summary: Positive regulator of dendritic spine morphogenesis and density. Required for the maintenance of excitatory synaptic transmission. Binds phosphatidylinositol 4,5-bisphosphate.[UniProtKB/Swiss-Prot Function]