

## Product datasheet for MC229552

### Frmpd4 (NM\_001290427) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Frmpd4 (NM\_001290427) 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:** >MC229552 representing NM\_001290427  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGAGGTCACACAGCTGCCACAGGACCAAGTCTTCGGGCTGGCCACCTCCCTCAGAACCTGGGGCTTGA  
 ACCAGGTACCACCCTATGGATGGGAGATGATGACAAACCGAGATGGACGTGACTACTTCATCAATCACAT  
 GACACAGGCAATCCCATTGATGACCCTCGGTTTGACAGCTGCCAAATCATCCCCCAGCTCCACGAAAG  
 GTGGAGATGAGGAGAGACCCTGTGCTGGGCTTTGGGTTTGTGGCAGGGAGCGAAAAGCCAGTGGTGTTC  
 GGTCAGTAACACCAGGTGGCCCCCTCAGAAGGCAAGCTGATCCCAGGAGATCAGATTGTAATGATTAAATGA  
 TGAAGCAGTCAGCGCTGCACCAAGAGAGAGAGTATCGACCTGGTCAGGAGCTGCAAAGAATCGATTCTG  
 CTCACTGTCATTCAGCCCTATCCATCTCCCAAATCAGCATTTATCAGTGTCTGCTAAAAAGGCAAGATTGA  
 AGTCCAATCCAGTCAAAGTGCGCTTTTCCGAAGAGGTCATAATCAATGGCCAAGTGTGCGAAACTGTTAA  
 AGACAATTCACCTCTTTTTATGCCAAATGTTTTGAAAGTCTATTTGAAAAACGGACAGACCAAATCCTTT  
 CGTTTTGACTGCAGCACCTCCATCAAGGATGTCATCTTAACCTGCAAGAGAAGTTGTCTATCAAAGGCA  
 TTGAACACTTCTCCCTCATGCTGGAGCAGAGAATTGAAGGGGCTGGCACCAGCTGCTCTTGCTTCAATGA  
 ACAGGAGACACTCACTCAGGTGACACAGAGGCCAGCTCCATAAGATGAGGTGTCTTTTCCGAATCAGT  
 TTTGTTCCCAAAGATCCCATTGACCTGTTAAGAAGAGATCCAGTTGCTTTTTGAGTATCTCTATGTTCA  
 GTTGTAAACGATGTCGTTCCAGGAGCGATTTGGACCAGAGCTGAAATATGACATTGCCTTGGCGCTGGCCGC  
 GTTACAAATGTACATTGCTACTGTCAACCAACAGACGCAGAAAAATCTCCCTCAAATACATTGAGAAA  
 GAATGGGGACTAGAGACTTTTCTCCATCTGCTGTGCTGCAGAGCATGAAAGAGAAGAACATCAAGAAA  
 CACTCTCCACCTTGTCAAAGCAAATCAAACCTGGTACCACCGGTAAAAAGCTCTCTGCACTACAAGC  
 TAAGGTCCACTATCTCAAGTTCTCAGCGACCTGCGACTATATGGGGCCGTGATTCAAGGCAACATTA  
 GTGCAGGCAGAGAAGCGCTCAGAAGTAACCTCTTCTGGTTGGTCCCGGTATGGCATAAGCCATGTCATA  
 ACACAAAACCAATCTGGTGGCTCTTTAGCTGACTTCAGCCATGTCAACAGGATTGAAATGTTTACTGA  
 AGAGGAGAGCTTGGTGAGGGTGGAGTTGCATGTGCTAGATGTGAAGCCATTACACTACTTATGGAGTCA  
 TCAGACGCCATGAACCTGGCCTGTCTGACAGCTGGATACTACCGCTGCTTGTGGACTCCAGGAGGTCAA



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TATTTAACATGGCCAACAAGAAAAACGCAGGCACGCAGGACACAGGATCAGAAAAATAAGGCAAGCATAA  
TCTCCTTGGTCTGATTGGAAGTGTATGCCCCAGATGACCACTTCATTGGTGAAGGCGAACAAGAAGCC  
CAAATCACATATATAGATTCTAAGCAGAAGACAGTTGAGATGACAGACAGCACCTTGTGTCCCAAAGAGC  
ACCGGCACTTATATATCGACAACATACAGTTTCAGATGAACTTAACCAGCCGCTGACTCAGCCAGGTGA  
TGCCCCCTGTGAGGCCGACTATAGAAGTCTAGCTCAGCGGTCCCTTTTGACCCTCTCAGGACCAGACT  
CTGAAGAAAGCACAGGAATCTCCGCGAGGAGCTAAAGTGTCTTTATTTTTGGAGATCTTGCCTTAGATG  
ATGGCATGAGTCCCCCAACTATAGGCTATGAAAGAATGTTAGAGGAGAATCCAGAATGCTGGAGAAGCA  
GAGGAATCTCTACATCAGCAGTGCCAATGACATGAAGAACCTGGACCTCACTCCAGACACAGACAGCATC  
CAGTTTGTGGCAAATTCTGTATATGCAAACATAGGTGATGTGAAGAACTTTGAGGCCCTGAGGGGATAG  
AGGAGCCCTCTTACATGACATCTGTTATGCGAAAAATACGGACGATGCAGAAGATGAAGATGAGGTGAG  
CTGCGAGGAGGACCTCGTGGTGGTGAATGAACCAACCAGCCATCCTTGACCTGTCGGGTCAAGTGTG  
GACATTATTGACCTCACAAACCTGCCTCCTCCAGAAGGAGATGACAATGAGGATGACTTCTCCTGCGTT  
CTCTGAACATGGCCATCGCTGCTCCCCACCTGGCTTTAGAGACAGTTCTGATGAAGAGGACACTCAGAG  
CCAGGCAACGTCCTTCCATGAGGACAAAGAACAAGGCAGCAGCCTGCAGAATGAGGAGATCCCTGTGTCC  
CTCATTGATGCTGTGCCACCAGTGCAGAGGGCAAGTGTGAGAAGGACTGGACCCTGCCGTCGTTTCCA  
CACTGGAAGCCCTAGAAGCTCTTTCAGAAGAACAGCAGAAGAGTAAAAATTCAGGTGTAGCCATCTTGCG  
AGCTTATAGTCCCGAGTCTTCATCAGACTCGGGCAATGAGACTAACTCTTCTGAAATGACAGAGGGTCT  
GAGCTAGCTGCAGCACAGAAGCAGTTCGGAAGCCCTCTCCCGCATGTTCTTGGCCACTCATGAAGGCTATC  
ACCCTCTGGCAGAAGAGCAGACAGAGTTCCCCACCTCAAAGCCCTCAGTGGGCTTGCCTCCAAAGTC  
CTCCATGGCCTGGCTGCTCGCCAGCGACCGACTCCCACCCAAAGTTGTGCCTTCAAGCAGATCCTT  
CACTCAGACCACATGGAATGGAGCCAGAAACCATGGAGACCAAGTCTGTCACTGACTATTTAGCAAAC  
TGCATATGGGGTCACTAGCATATTCCTGTACCAGCAAAAGGAAAGCAAGCTTCTGAGGGAGAGGGGAA  
ATCCCCCTGAGTGGGAATATACCAGGAAAAAACAGCAGGGAACCAAAATAGCAGAGATAGAGGAGGAC  
ACCAAAGGCAAAAGCTGGCACTGTGTCTTCAAGAGACAATCCACACCTCAGCACTTTTAACTAGAGAGAA  
CTGCCTTTCGCAAGGACAGCCAAAGATGGTATGTGGCCTCTGATGGTGGGGTGGTAGAGAAAAGTGAAT  
GGAAGCACCAGCCATGAAAGTCTTCCAGAGGTCAGGCTTGGGTAACAGAGAGGCTGAAGGAAAGAG  
GATGGCACTGTGGAAGGAGGGGCTGATGATGCTTCACTACTTGGCCAAGGGGACCGCTTCTCACAGACA  
TGGCCTGTGTAGCCTCAGCCAAAGACTTAGATAACCCGAAGATACTGACTCTCCCTCTTGTGACCATGC  
CACTAAGCTTCTGAGGCTGAAGACAATGTGGCCCGCTTTGTGACTACCATTGGCCAAGCGAATGTCA  
TCCCTGCAGAGTGAAGGCAATTTCTCTACAGAGCTCTCAAGGCTTTCAGTGGACACAGGCTGTGGAC  
CGGCAGCAGTAGCAGTGCCTGTGCCACTCCTGTGGAATCGCCCTCTGCCGTCATGGGAAGCAGAT  
GATTCAGATGCTTCTGGAAAGGAGGGAGATATTTACCAGAGGAGAGGCCCTGGCCATCCCAAC  
CATGGAGCCACCTTCAGGAACTGCACCACAGACAGAAGGGATGTGTCCACGCATGACAGTGCCTGCTC  
TGCACACAGCCATTAATGCCGACCCCTGTTTGGCACTTTGAGAGATGGATGCCATCGACTGCCCAAGAT  
TAAGGAAACCACAGTGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001290427
- Insert Size:** 3939 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001290427.1</a></u> , <u><a href="#">NP_001277356.1</a></u>
<b>RefSeq Size:</b>	8223 bp
<b>RefSeq ORF:</b>	3939 bp
<b>Locus ID:</b>	333605
<b>UniProt ID:</b>	<u><a href="#">A2AFR3</a></u>
<b>Cytogenetics:</b>	X F5
<b>Gene Summary:</b>	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]