

Product datasheet for MR231763

Frmpd4 (NM_001290427) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Frmpd4 (NM_001290427) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Frmpd4
Synonyms: Gm196; Pdzd10; Pdzk10; PKAP1; preso; Preso1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR231763 representing NM_001290427
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGGTCACACAGCTGCCACAGGACCAAGTCTTCGGGCTGGCCACCTCCCTCAGGAACCTGGGGCTTGA
 ACCAGGTACCACCCTATGGATGGGAGATGATGACAAACCGAGATGGACGTGACTACTTCATCAATCACAT
 GACACAGGCAATCCATTTGATGACCCTCGTTTGACAGCTGCCAAATCATCCCCCAGCTCCACGAAAG
 GTGGAGATGAGGAGAGACCCTGTGCTGGGCTTTGGGTTTGTGGCAGGGAGCGAAAAGCCAGTGGTCGTT
 GGTCAGTAACACCAGGTGGCCCCCAGAAGGCAAGCTGATCCCAGGAGATCAGATTGTAATGATTAATGA
 TGAAGCAGTCAGCGCTGCACCAAGAGAGAGAGTATCGACCTGGTCAGGAGCTGCAAAGAATCGATTCTG
 CTCACTGTCAATCAGCCCTATCCATCTCCCAAATCAGCATTTATCAGTGCTGCTAAAAAGCAAGATTGA
 AGTCCAATCCAGTCAAAGTGCCTTTTTCCGAAGAGGTCATAATCAATGGCCAAGTGTCCGAAACTGTTAA
 AGACAATTCATTCTTTTTATGCCAAATGTTTTGAAAGTCTATTTGGAAAACGGACAGACCAAACTCTTT
 CGTTTTGACTGCAGCACCTCCATCAAGGATGTCATCTTAACCCTGCAAGAGAAGTTGTCTATCAAAGGCA
 TTGAACACTTCTCCCTCATGCTGGAGCAGAGAATTGAAGGGGCTGGCACCAGCTGCTCTTGCTTCATGA
 ACAGGAGACACTCACTCAGGTGACACAGAGGCCAGCTCCATAAGATGAGGTGTCTTTCCGAATCAGT
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 ACACAAAACCAATCTGGTGGCTCTTTAGCTGACTTCAGCCATGTCAACAGGATTGAAATGTTTACTGA
 AGAGGAGAGCTTGGTGAGGGTGGAGTTGCATGTGCTAGATGTGAAGCCATTACACTACTTATGGAGTCA



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TCAGACGCCATGAACCTGGCCTGTCTGACAGCTGGATACTACCGCTGCTTGTGGACTCCAGGAGGTCAA
TATTTAACATGGCCAACAAGAAAAACGCAGGCACGCAGGACACAGGATCAGAAAAATAAGGCAAGCATAA
TCTCCTTGGTCTGTATTGGAAGTGTATGCCCCAGATGACCACCTTCATTGGTGAAGGCGAACAAGAAGCC
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TGCCCCCTGTGAGGCCGACTATAGAAGTCTAGCTCAGCGGTCCCTTTTGACCCCTCAGGACCAGACACT
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CACTAAGCTTTCTGAGGCTGAAGACAATGTGGCCCGCTTTGTGACTACCATTGGCCAAGCGAATGTCA
TCCCTGCAGAGTGAGGGCATTCTCTACAGAGCTCTCAAGGCTTTCAGTGGACACAGGCTGTGGAC
CGGGCAGCAGTAGCAGTGCCTGTGCCACTCCTGTGGAATCGCCCCCTGCCCCGTCCATGGGAAGCACAT
GATTCCAGATGCTTCTGGAAAGGAGGGAGATATTTACCAGAGGAGAGGCCCTGGCCATCCCAAC
CATGGAGCCACCTTCAGGAACTGCACCACAGACAGAAGGGATGTGTCCACGCATGACAGTGCCTGCTC
TGCACACAGCCATTAATGCCGACCCCTGTTTGGCACTTTGAGAGATGGATGCCATCGACTGCCCAAGAT
TAAGGAAACCACAGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231763 representing NM_001290427
 Red=Cloning site Green=Tags(s)

MRSHSCHRTKSSGWPPPSGTWGLNQVPPYGWEMMTNRDGRDYFINHMTQAI PFDDPRFDSCQIIPPAPRK
 VEMRRDPVLGFGFVAGSEKPVVRSVTPGGPSEGKLIPGDQIVMINDEAVSAAPRERVIDLVRSCKE SIL
 LTVIQPYSPKSAFISAACKARLKS NPVKVRFSEEVINGQVSE TVKDNSLLFMPNVLKVYLENGQTKSF
 RFDCASTIKDVILTLQEKL SIKGIEHFSLMLEQRIEGAGTKLLLLHEQETLTQVTQRPSSHKMRCLFRIS
 FVPKDPIDLLRRDPVAFEYLYVQSCNDVVQERFGPELKYDIALRLAALQMYIATVTTKQTKISLKYIEK
 EWGLETFLPSAVLQSMKEKNIKKALSHLVKANQNLVPPGKLSALQAKVHYLKFLSDLRLYGGRVFKATL
 VQAEKRSEVTLVGPYRIGISHVINTKTNLVALLADF SHVNRIEMFTEESLVRVELHVLVDVKPITLLMES
 SDAMNLA CLTAGYYRLLVDSRRSIFNMANKKNAGTQDTGSENKGNHLLGPDWNCMPQMTTFIGEGEQEA
 QITYIDSKQKTVEMTDSTLCPKEHRHLYIDNSYSSDELNQPLTQPGDAPCEADYRSLAQRSLTLSPGDT
 LKKAQESPRGAKVSFIFGDLALDDGMSPTIGYERMLEENPEMLEKQRNLYISSANDMKNLDPDPTDSI
 QFVANSVYANIGDVKNFEAPEGIEEPLLDICYAENTDDAEDEDEVSCEEDLVGEMNQPAILDLSGSSD
 DIIDLTTLPPEGGDDNEDDFLLRSLNMAIAAPPPGFRDSSDEEDTQSQATSFHEDKEQGSSLQNEEIPVS
 LIDAVPTS AEGKCEKGLDPAVVSTLEALEALSEEQQKSENSGVAILRAYSPSSSDSGNETNSSEMTEGS
 ELAAAQKQSESLSRMFLATHEGYHPLAEEQTEFPTSKAPSVGLPPKSSHGLAARPATDLPKVVPSKQIL
 HSDHMEMEPETMETKSVTDYFSKLMHMSVAYSCTSKRKS KLPEGEGKSPLSGNIPGKKQQTGKIAEIEED
 TKGKAGTVSSRDNPHLSTFNLERTAFRKDSQRWYVASDGGVVEKSGMEAPAMKVFPRGPGLNREAEKGE
 DGTVEGGADDASVLGQGRFLTDMACVASAKDLNPEDTDSPSCDHATKLSAEDNVARLCDYHLAKRMS
 SLQSEGHFSLQSSQGSSVDTGCGPGSSSSACATPVESPLCPSMGKHMIPDASGKGGRYISPEERAPGHPN
 HGATFEELHPQTEGMCPRMTVPALHTAINADPLFGTLRDGCHRLPKIKETTV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



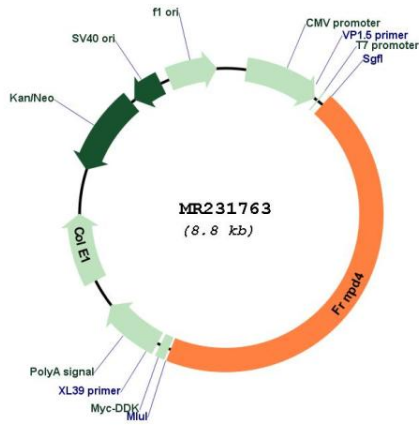
* The last codon before the Stop codon of the ORF

ACCN: NM_001290427

ORF Size: 3936 bp

OTI Disclaimer:	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
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	<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:	NM_001290427.2
RefSeq Size:	8223 bp
RefSeq ORF:	3939 bp
Locus ID:	333605
UniProt ID:	A2AFR3
Cytogenetics:	X F5
MW:	144.1 kDa
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]

Product images:



Circular map for MR231763