

Product datasheet for RC217146

FRMPD2 (NM_001042512) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FRMPD2 (NM_001042512) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FRMPD2
Synonyms:	PDZD5C; PDZK4; PDZK5C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217146 representing NM_001042512 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACATCTATCCCTTTCCAGGTGACCGACTCCTGCAGGTGGATGGAGTGATTCTGTGCGGCCTCACCC
ACAAGCAGGCTGTGCAGTGCCTGAAGGGTCTGGGCAGGTTGCAAGACTGGTCTTAGAGAGAAGAGTCCC
CAGGAGTACACAGCAGTGCCTTCTGCTAATGACAGCATGGGAGATGAACGCACGGCTGTTTCTTGTA
ACAGCCTTGCCTGGCAGGCTTCGAGCTGTGTCTCAGTGACAGATGGTCCTAAGTTTGAAGTCAAATA
AAAAGAATGCCAATGGTTTGGGATTCAGTTTCGTGCAGATGGAGAAAGAGAGCTGCAGCCATCTCAAAG
TGATCTTGTGAGGATTAAGAGGCTCTTCCGGGGCAGCCAGCTGAGGAGAATGGGGCCATTGCAGCTGGT
GACATTATCCTGGCCGTGAATGGAAGGTCCACGGAAGGCCTCATCTTCCAGGAGGTGCTGCATTTACTGA
GAGGGGCCACAGGAAGTCAAGCTCCTCTTTCGCGACCCCTCCAGGTGCGCTGCCTGAGCTGGAGCA
GGAATGGCAGACCTGAACTCTCAGCTGACAAAGAATCACCAGGGCAACATGTACTGACTCATGTACC
AGCCCCATCCTGGATCAAGAGGACAGCTGGAGGGACAGTGCTCCCCAGATGCAGGGGAAGGCTGGGTC
TCAGGCCAGAGTCTCCCAAAGGCCATCAGAGAGGCACAATGGGGCCAAAACAGAGAGAGACCTTGGGC
CAGTTCCTTGACACATTCTCTGAGTCCCACCTCATTTATGCAAATTCACCAAGAAAGGGATGAATCA
ACATTGGCGACCTCTTTGGAAAAGGATGTGAGGCAAAACTGCTATTCAGTTTGTGATATCATGAGACTTG
GAAGATATCTCTCATCTCCTAACCAGACTTTCGACAGATATTTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC217146 representing NM_001042512
Red=Cloning site Green=Tags(s)

MTSIPFPGDRLLQVDGVILCGLTHKQAVQCLKGPGQVARLVLERRVPSTQQCPSANDSMGDERTAVSLV
 TALPGRPSSCVSVDGPKFEVKLKKNANGLGFSFVQMEKESCShLkSDLVRIKRLFPGQPAEENGAIAG
 DIILAVNGRSTGLIFQEVHLHLRGAPQEVTL LCRPPPGALPELEQEWQTPELSADKEFTRATCTDSCT
 SPILDQEDSWRDSASPDAGEGLRPESSQKAIREAQWQNRERPWASSLTHSPESHPhLCKLHQERDES
 TLATSLEKDVRQNCYSVCDIMRLGRYSFSSPLTRLSTDIF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8051_f10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001042512

ORF Size: 960 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:

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_001042512.2](#), [NP_001035977.2](#)

RefSeq Size: 1870 bp

RefSeq ORF: 963 bp

Locus ID: 143162

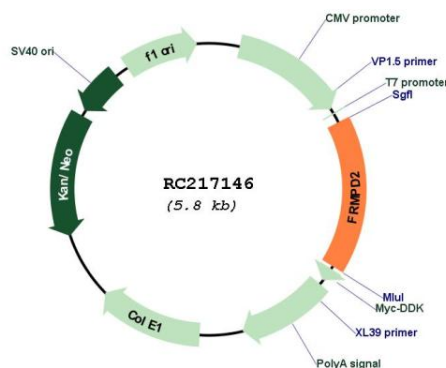
UniProt ID: [Q68DX3](#)

Cytogenetics: 10q11.22

MW: 34.9 kDa

Gene Summary: This gene encodes a peripheral membrane protein and is located in a region of chromosome 10q that contains a segmental duplication. This copy of the gene is full-length and is in the telomeric duplicated region. Two other more centromerically proximal copies of the gene are partial and may represent pseudogenes. This full-length gene appears to function in the establishment and maintenance of cell polarization. The protein is recruited to cell-cell junctions in an E-cadherin-dependent manner, and is selectively localized at the basolateral membrane in polarized epithelial cells. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2009]

Product images:



Circular map for RC217146