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Product datasheet for SC100808

FRMPD2 (NM_152428) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FRMPD2 (NM_152428) Human Untagged Clone
Tag:	Tag Free
Symbol:	FRMPD2
Synonyms:	FERM and PDZ domain containing 2; MGC35285; MGC87776; MGC87777; MGC90186; PDZD5C; PDZ domain containing 5C; PDZK5C
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_152428, the custom clone sequence may differ by one or more nucleotides

ATGCAGCCTTTAACGAAGGACGCAGGCATGAGCCTGTCCTCTGTGACGCTGGCCAGCGCCCTACAGGTCA
GGGGTGAAGCTCTGTCTGAGGAGGAAATCTGGTCCCTCCTGTTCCTGGCCGCTGAGCAGCTCCTGGAAGA
CCTCCGCAACGATTCCTCGGACTATGTGGTTTGCCCCTGGTCAGCCCTGCTTTCTGCAGCTGGAAGCCTT
TCTTTCCAAGGCCGTGTTTCTCATATAGAGGCTGCTCCTTTCAAGGCCCCTGAACTGCTACAGGGACAGA
GTGAGGATGAGCAGCCTGATGCATCTCAGCCCCTGCAGCTCTGCGAGCCCCTGCACTCCATCCTGCTGAC
CATGTGTGAAGACCAGCCTCACAGGCGGTGCACGTTGCAGTCGGTTCTGGAAGCTTGTCGGGTTCATGAG
AAAGAAGTGTCTGTCTACCCAGCCCCTGCTGGTCTCCACATCAGAAGGCTGGTTGGCTTGGTTCTGGGTA
CCATTTCTGAGGTGGAGAAAAGAGTTGTGGAGGAAAGCTCCTCTGTGCAGCAGAACAGAAGCTACCTGCT
CAGGAAGAGGCTGCGTGGGACAAGCAGCGAGAGCCCAGCGGCACAGGCCCCGGAGTGTCTGCATCCTTGC
AGAGTTTCAGAAAGAAGCACGGAGACCCAGAGCTCACCAGAGCCCCATTGGAGCACCTTGACACACAGTC
ACTGCAGCCTCCTTGTTAACCGCGCTCTTCCAGGAGCAGATCCCCAGGACCAGCAGGCGGGCCGGAGGCT
CAGCTCTGGATCTGTGCACTCGGCAGCAGACAGCTCATGGCCAACAACTCCTTCTCAGAGGGGTTTTCTG
CAAAGAAGGAGCAAGTTTTCCAGGCCAGAGTTCATCCTGTTGGCTGGAGAGGCCCCGATGACACTACATC
TGCCGGGATCGGTTGTGACCAAAAAAGGGAAATCCTATTTGGCTCTCAGGGACCTCTGTGTGGTCCTGCT
GAACGGGCAGCACCTGGAGGTAAAATGTGATGTTGAATCAACAGTGGGAGCTGTCTTCAATGCCGTGACA
TCCTTTGCCAACCTCGAGGAACTCACCTACTTTGGCTTGGCGTATATGAAAAGCAAAGAGTTCTTTTTCC
TGGACAGTGAAACCAGATTGTGCAAAATAGCTCCTGAAGGCTGGAGAGAGCAGCCTCAGAAGACCTCCAT
GAATACCTTCACACTCTTCCTGAGGATAAAGTTCTTTGTCAGCCACTATGGGCTGCTCCAGCACAGCCTG
ACAAGGCACCAGTTTTACCTGCAGCTTCGGAAAGATATCCTGGAGGAGAGGCTGTACTGCAATGAAGAGA
TACTGCTGCAGCTGGGGGTCCTTGCCTTGCAGGCTGAGTTTGGCAATTACCCTAAGGAGCAGGTGGAGAG
TAAGCCATACTTTCACGTTGAAGATTACATCCCAGCGAGTCTGATCGAGAGGATGACCGCTCTACGGGTC
CAGGTTGAAGTCTCAGAGATGCACCGGCTCAGCTCTGCACTGTGGGGAGAGGATGCTGAGCTGAAGTTCT

TGAGGGTCACTCAGCAGCTCCCAGAATACGGTGTGCTGGTTCACCAAGTATTCTCAGAGAAGAGGAGGCC
AGAAGAGGAGATGGCCCTGGGGATCTGTGCCAAGGGTGTCATAGTCTATGAAGTGAAAAACAACAGCAGA
ATTGCAATGTTACGGTTTCAGTGGAGAGAAACCGGGAAGATTTCTACTTATCAAAAAAAGTTCACCATCA
CAAGCAGTGTCACTGGGAAGAAGCACACATTTGTCACAGATTCAGCCAAGACCAGTAAATACTTACTGGA
CCTCTGCTCAGCCCAGCATGGGTTTAATGCACAGATGGGCTCTGGGCAGCCTTCCCATGTTTTATTTGAC
CATGATAAGTTTGTGCAAATGGCCAATTTGAGTCCTGCACACCAGGCCCGGTCTAAGCCTCTCATTTGGA
TTCAGAGATTGTCATGCTCAGAAAACGAGTTGTTTGTATCCAGGCTTCAGGGTGCTGCAGGAGGCCTGCT
GAGTACATCAATGGATAACTTCAACGTGGACGGCAGCAAGGAGGCTGGAGCAGAAGGCATCGGGCGCAGC
CCCTGCACTGGCCGGGAGCAGCTGAAGAGTGCCTGTGTGATCCAGAAGCCAATGACCTGGGACTCTCTCT
CTGGACCACCTGTTCAGAGCATGCATGCAGGCTCAAAGAATAATAGGAGGAAGAGCTTTATAGCTGAACC
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CATGGCTGGGGTGCAGAGCTTAGTGCCCAGGCTGAGACATCAGCTTTCCTTTCTGCCGTTAAAGGGTGCT
GGTTCTTCTTGTCCTCCATCACCTCCAGAAATCAGTGCTGGTGAAATCTACTTTGTGGAACTGGTTAAAG
AAGATGGGACACTTGGATTCAGTGTAACTGGTGGCATTAACACCAGTGTGCCATATGGTGGTATCTATGT
GAAATCCATTGTTCCTGGAGGACCAGCTGCCAAGGAAGGGCAGATCCTACAGGGTGACCGACTCCTGCAG
GTGGATGGAGTGATTCTGTGCGGCCTCACCCACAAGCAGGCTGTGCAGTGCCTGACGGGTCCTGGGCAGG
TTGCAAGACTGGTCTTAGAGAGAAGAGTCCCCAGGAGTACACAGCAGTGTCCTTCTGCTAATGACAGCAT
GGGAGATGAACGCACGGCTGTTTCCTTGGTAACAGCCTTGCCTGGCAGGCCTTCGAGCTGTGTCTCAGTG
ACAGATGGTCCTAAGTTTGAAGTCAAACTAAAAAAGAATGCCAATGGTTTGGGATTCAGTTTCGTGCAGA
TGGAGAAAGAGAGCTGCAGCCATCTCAAAAGTGATCTTGTGAGGATTAAGAGGCTCTTTCCGGGGCAGCC
AGCTGAGGAGAATGGGGCCATTGCAGCTGGTGACATTATCCTGGCCGTGAATGGAAGGTCCACGGAAGGC
CTCATCTTCCAGGAGGTGCTGCATTTACTGAGAGGGGCCCCACAGGAAGTCACGCTCCTCCTTTGCCGAC
CCCCTCCAGGTGCGCTGCCTGAGCTGGAGCAGGAATGGCAGACACCTGAACTCTCAGCTGACAAAGAATT
CACCAGGGCAACATGTACTGACTCATGTACCAGCCCCATCCTGGATCAAGAGGACAGCTGGAGGGACAGT
GCCTCCCCAGATGCAGGGGAAGGCCTGGGTCTCAGGCCAGAGTCTTCCCAAAAGGCCATCAGAGAGGCAC
AATGGGGCCAAAACAGAGAGAGACCTTGGGCCAGTTCCTTGACACATTCTCCTGAGTCCCACCCTCATTT
ATGCAAACTTCACCAAGAAAGGGATGAATCAACATTGGCGACCTCTTTGGAAAAGGATGTGAGGCAAAAC
TGCTATTCAGTTTGTGATATCATGAGACTTGGAAGATATTCCTTCTCATCTCCTCTAACCAGACTTTCGA
CAGATATTTTCTGA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_152428 unedited
GTCAAAATATGTATACGACTCATATAGGGCGGCCGCGATTCGGCACGAGGGCAGGTTGCA
AGACTGGTCTTAGAGAGAAGAGTCCCCAGGAGTACACAGCAGTGTCCTTCTGCTAATGAC
AGCATGGGAGATGAACGCACGGCTGTTTCCTTGGTAACAGCCTTGCCTGGCAGGCCTTCG
AGCTGTGTCTCGGTGACAGATGGTCCTAAGTTTGAAGTCAAACTAAAAAAGAATGCCAAT
GGTTTGGGATTCAGTTTCGTGCAGATGGAGAAAGAGAGCTGCAGCCATCTCAAAAGTGAT
CTTGTGAGGATTAAGAGGCTCTTTCCGGGGCAGCCAGCTGAGGAGAATGGGGCCATTGCA
GCTGGTGACATTATCCTGGCCGTGAATGGAAGGTCCACGGAAGGCCTCATCTTCCAGGAG
GTGCTGCATTTACTGAGAGGGGCCCCACAGGAAGTCACGCTCCTCCTTTGCCGACCCCCT
CCAGGTGCGCTGCCTGAGATGGAGCAGGAATGGCAGACACCTGAACTCTCAGCTGACAAA
GAATTCACCAGGGCAACATGTACTGACTCATGTACCAGCCCCATCCTGGATCAAGAGGAC
AGCTGGAGGGACAGTGCCTCCCCAGATGCAGGGGAAGGCCTGGGTCTCANGCCAGAGTCT
TCCCAAAAGGCCATCAGAGAGGCACAATGGGGCCAAAACAGAGAGAGACCTTGGGCCAGT
TCCTTGACACATTCTCCTGAGTCCCACCCTCATTTATGCAAACTTCACCAAGAAAGGGAT
GAATCAACATTGGNCGACCTCTTTTGAAAAAGATGTGAGGCANAACTGCTATTCAGTTGT
GATATCATGAGACTTGGAAGATATTCCTTCTCATCTCCTCTAACCAGACTTTCGACAGAT
ATTTTCTGAGCACCTCTCTGCTGTCTGCAGTGCTGTGTAAATGCCCTACCTTA

Restriction Sites:	NotI-NotI
ACCN:	NM_152428
Insert Size:	3900 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_152428.1, NP_689641.1
RefSeq Size:	4731 bp
RefSeq ORF:	4731 bp
Locus ID:	143162
Cytogenetics:	10q11.22
Domains:	PDZ

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]
Transcript Variant: This variant (1) lacks an in-frame segment of the coding region, compared to variant 3. It encodes a shorter isoform (1), compared to isoform 3.