

Product datasheet for **RG219021**

FRMD3 (NM_174938) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	FRMD3
Synonyms:	4.1O; EPB41L4O; EPB41LO; P41O
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG219021 representing NM_174938
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTTGCGCTCCTGCCACTGTGTGCCGAGAGGCAGGAGGACCATGAAAATGATCCACTTTCGGAGCTCCA
 GCGTCAAATCGCTCAGCCAGGAGATGAGATGCACCATCCGGCTGCTGGACGACTCGGAGATCTCCTGCCA
 CATCCAGAGGGAACCAAGGGCAGTTTCTCATTGACCACATCTGCAACTACTACAGCCTGCTGGAGAAG
 GACTACTTTGGCATTTCGCTATGTGGACCCAGAGAAGCAAAGGCACTGGCTTGAACCTAACAGTCCATCT
 TCAAGCAAATGAAAACATCCACCATAACCATGTGCTTTAGAGTGAAATTTACCCACATGAACCTT
 GAAGATTAAAGAAAGAGCTCACAAGATACCTTTTATACCTTCAGATTAAAGGGACATTTTTCATGGCCGC
 CTGCTGTGCTCCTTTCTGATGCTGCCTACCTGGGTGCCTGTATTGTTCAAGCTGAGCTTGGTGATTACG
 ATCCTGATGAGCATCCTGAGAATTACATCAGTGAGTTTGTAGATTTTCCCAAGCAGTCACAGAAGCTGGA
 AAGAAAAATAGTGGAAATTCATAAAATGAACTCAGGGGCGAGAGCCACCAAGTTGCTGAATTTAACTTG
 CTCCTGAAAGCTCACACTTTGGAAACCTACGGGTGGATCCTCACCCATGCAAGGATTCAACAGGCACAA
 CAACATTTTATAGGATTCACAGCTGCAGGCTTTGTGGTCTTTCAGGGAAATAAGAGAATCCATTTGATAAA
 ATGGCCAGATGTCTGCAAATTAAGTTTGAAGGAAGACATTTTATGTGATTGGCAGCCAGAGGAGAGAA
 AAAGCCATGTTGGCATTCCATACTTCAACACCACTGCCTGCAACATCTTTGGAAGTGTGGAGTGGAAA
 ACCAGGCTTTTATAAGTATGCAAAATCCAGTCAGATCAAGACTGTATCAAGCAGCAAGATATTTTAA
 AGGAAGTAGATTTTCATATAGTGGGAAAGTTGCCAAAGAGGTGGTGGAGGCCAGTTTCAAGATCCAGAGG
 GAGCCTCCTGAGGTGCACAGAGCCAACTTACTCAGAGCCGAGTTCCTCCTTGAACAAACAGCTCA
 TCATTAACATGGAACCCCTGCAGCCCTGCTTCTTCCCCAGCGAGCAAGAAGAAGAACTTCTCTGGG
 TGAGGGTGTTCATTGCCTAAAGAGGAGAATTTCTGCTCCCTTGATCTCCAGCTCCCAGTGAAGGCA
 GCCCGGAGTATGAAGATCCCCTAGTGAAGAGGAAGATAAAATAAAGAAGAACCTTTAACCATCTCTG
 AACTAGTGTACAACCAAGTGCCAGCTGCTCCCAACCCCTGTGGATGACGATGAGATTGACATGCTCTT
 TGACTGTCTTCTAGGCTTGTGTTGAAAGAGAGACAGATTCATTTGAGGATCTGGAAGCAGATGAA
 AACGCTTTTGTGATTGCTGAAGAAAGAGGAGCTGAAGGAGGCTCGCCGTGCTTTGTCTGGAGCTATGACA
 TTCTGACTGGCCATATTCGGGTGAACCCACTGGTCAAGAGTTTTTCCAGGCTCCTTGTGGTGGGCTGGG
 ACTGCTGCTCTTTGTATTTCCCTGCTCCTCCTCTTTGGAGTCAGGTATTGATCTCTCTTCTTATGC
 GAAATCCGCCAGACACCAGAGTTTGAGCAGTTTCACTATGAATACTACTGTCCCTCAAGGAGTGGGTGG
 CTGGGAAAGTCCACCTCATCTCTACATGCTGGTTGCTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG219021 representing NM_174938
 Red=Cloning site Green=Tags(s)

MFASCHCVPRGRRTMKMIHFRSSSVKLSQEMRCTIRLLDDSEISCHIQRETKGQFLIDHICNYSLLEK
 DYFGIRYVDPEKQRHWLEPNKSIFKQMKTHPPYTMCFRVKFPHEPLKIKEELTRYLLYLQIKRDIFHGR
 LLCFSFDAAYLGACIVQAEAGDYDPDEHPENYISEFEIFPKQSQKLERKIVEIHKNELRGQSPVAEFNL
 LLKAHTLETYGVDPHPCKDSTGTTTFLGFTAAGFVVFQGNKRIHLIKWPDVCKLKFEKTFYVIGTQKEK
 KAMLAFTSTPAACKHLWKCGVENQAFYKYAKSSQIKTVSSSKIFFKGSFRFYSKVAKEVVEASSKIQR
 EPPEVHRANITQSRSSSHLNKQLIINMEPLQPLLPSPSEQEEELPLGEGVPLPKEENISAPLISSSPVKA
 AREYEDPPSEEDKIKEEPLTISELVYNPSASLLPTPVDDDEIDMLFDCPSRLELEREDTDSFEDLEADE
 NAFLIAEEEEELKEARRALSWSYDILTGHIRVNPLVKSFSRLLVVGLGLLLFVFLLLLLLESIGIDL SFLC
 EIRQTPEFEQFHVEYYCPLKEWVAGKVHLILYMLGCS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_174938

ORF Size: 1791 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_174938.6](#)

RefSeq Size: 2529 bp

RefSeq ORF: 1794 bp

Locus ID: 257019

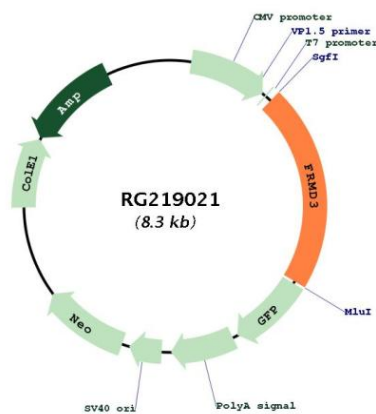
UniProt ID: [A2A2Y4](#)

Cytogenetics: 9q21.32

Protein Families: Transmembrane

Gene Summary: The protein encoded by this gene is a single pass membrane protein primarily found in ovaries. A similar protein in erythrocytes helps determine the shape of red blood cells, but the function of the encoded protein has not been determined. There is some evidence that this is a tumor suppressor gene, and there is also evidence linking defects in this gene to susceptibility to diabetic nephropathy in type 1 diabetes. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

Product images:



Circular map for RG219021