

Product datasheet for **RG232965**

FRMD3 (NM_001244959) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FRMD3 (NM_001244959) Human Tagged ORF Clone
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)



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ORF Nucleotide Sequence:

>RG232965 representing NM_001244959
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTTCGCTCCTGCCACTGTGTGCCGAGAGGCAGGAGGACCATGAAAATGATCCACTTTCGGAGCTCCA
 GCGTCAAATCGCTCAGCCAGGAGATGAGATGCACCATCCGGCTGCTGGACGACTCGGAGATCTCCTGCCA
 CATCCAGAGGGAAACCAAGGGCAGTTTCTCATTGACCACATCTGCAACTACTACAGCCTGCTGGAGAAG
 GACTACTTTGGCATTGCTATGTGGACCCAGAGAAGCAAAGGCACTGGCTTGAACCTAACAGTCCATCT
 TCAAGCAAATGAAAACCTATCCACCATACACCATGTGCTTTAGAGTGAAATTTCTACCCACATGAACCCTT
 GAAGATTAAGAAGAGCTCACAAGATACCTTTTATACCTCAGATTAAGGGGACATTTTTCATGGCCGC
 CTGCTGTGCTCCTTTCTGATGTGCTACCTGGGTGCCTGTATTGTTCAAGCTGAGCTTGGTGATTACG
 ATCCTGATGAGCATCCTGAGAATTACATCAGTGAGTTTGGATTTTCCCCAAGCAGTCACAGAAGCTGGA
 AAGAAAAATAGTGAAATTCATAAAAATGAACTCAGGGGGCAGAGCCACCAGTTGCTGAATTTAAGCTG
 CTCTGAAAGCTCACACTTTGAAAACCTACGGGGTGGATCCTCACCCATGCAAGGATTCAACAGGCACAA
 CAACATTTTTAGGATTCACAGCTGCAGGCTTTGTGGTCTTTCAGGGAAATAAGAGATCCATTTGATAAA
 ATGGCCAGATGTCTGCAAATGAAGTTTGAAGGGAAGACATTTTATGTGATTGGCACCCAGAAGGAGAAA
 AAAGCCATGTTGGCATTCCATACTTCAACACCAGCTGCCTGCAAACATCTTTGGAAGTGTGGAGTGGAAA
 ACCAGGCTTTTATAAGTATGCAAAATCCAGTCAGATCAAGACTGTATCAAGCAGCAAGATTTTTTTAA
 AGGAAGTAGATTCGATATAGTGGGAAAGTTGCCAAAGAGGTGGTGGAGGCCAGTTCCAAGATCCAGAGG
 GAGCCTCCTGAGGTGCACAGAGCCAACATTACTCAGAGCCGAGTCCCCTCCTTGAACAAACAGCTCA
 TCATTAACATGGAACCCCTGCAGCCCTGCTTCTTCCCCAGCGAGCAAGAAGAAGAACCTTCTCTG
 TGAGGGTGTTCATTGCCTAAAGAGGAGAACATTTCTGCTCCCTTGATCTCCAGCTCCCCAGTGAAGGCA
 GCCCGGAGTATGAAGATCCCCCTAGTGAAGAGGAAGATAAAAATAAAGAAGAACCTTTAACCATCTCTG
 AACTAGTGTACAACCAAGTGCCAGCCTGCTCCCCACCCCTGTGGATGACGATGAGATTGACATGCTCTT
 TGACTGCTCTTAGGCTTGAGTTGAAAGAGAAGACACAGATTCATTTGAGGATCTGGAAGCAGATGAA
 AACGCCTTTTGTGCTGAAGAAGAGGAGCTGAAGGAGGCTCGCCGTGCTTTGTCGTGGAGCTATGACA
 TTCTGACTGGCCATATTCGGGTGAACCCACTGGTCAAGAGTTTTTCCAGGCTCCTGTGGTGGCCCTGGG
 ACTGCTGCTCTTGTATTTCCCTGCTCCTCCTCTTTTGGAGTCAGTCTCCATGCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG232965 representing NM_001244959
 Red=Cloning site Green=Tags(s)

MFASCHCVPRGRRTMKMIHFRSSSVKLSQEMRCTIRLLDDSEISCHIQRETKGQFLIDHICNYSSLLEK
 DYFGIRYVDPEKQRHWLEPNKSIKQKMTHTPPYTMCFRVKFPHEPLKIKEELTRYLLYLQIKRDI FHGR
 LLCFSDAAYLGACIVQAE LGDYDPDEHPENYISEFEIFPKQSQKLERKIVEIHKNELRGQSPVAFENL
 LLKAHTLETYGVDPHPCKDSTGTTTFLGF TAAGFVVFQGNKRIHLIKWPDVCKLKFEGKTFYVIGTQKEK
 KAMLAFHTSTPAACKHLWKGVENQAFYKYAKSSQIKTVSSSKIFFKGSFRFRYSGKVAKEVVEASSKIQR
 EPPEVHRANITQSRSSHSLNKQLIINMEPLQPLLSPSEQEEELPLGEGVPLPKEENISAPLISSSPVKA
 AREYEDPPSEEDKIKEEPLTISELVYNPSASLLPTPVDDDEIDMLFDCPSRLELEREDTDSFEDLEADE
 NAFLIAEEEEELKEARRALSWSYDILTGHIRVNPLVKSFSRLLVVLGLLLLFVFPLLLLLLESVSMQ

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001244959

ORF Size: 1668 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_001244959.2](#)

RefSeq Size: 2103 bp

RefSeq ORF: 1671 bp

Locus ID: 257019

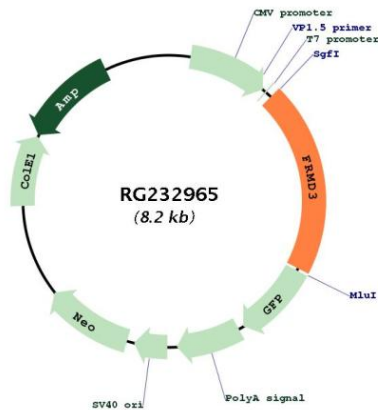
UniProt ID: [A2A2Y4](#)

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 RG232965