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Product datasheet for RC232581

FRMD3 (NM_001244961) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FRMD3 (NM_001244961) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FRMD3
Synonyms:	4.1O; EPB41L4O; EPB41LO; P410
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC232581 representing NM_001244961 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGTGTTCAGAAGGGGGCAGAGCCCACCAGTTGCTGAATTTAACTTGCTCCTGAAAGCTCACACTTTGG AAACCTACGGGGTGGATCCTCACCCATGCAAGGATTCAACAGGCACAACAACATTTTTAGGATTCACAGC TGCAGGCTTTGTGGTCTTTCAGGGAAATAAGAGAATCCATTTGATAAAATGGCCAGATGTCTGCAAATTG AAGTTTGAAGGGAAGACATTTTATGTGATTGGCACCCAGAAGGAGAAAAAAGCCATGTTGGCATTCCATA CTTCAACACCAGCTGCCTGCAAACATCTTTGGAAGTGTGGAGTGGAAAACCAGGCCTTTTATAAGTATGC AAAATCCAGTCAGATCAAGACTGTATCAAGCAGCAAGATATTTTTTAAAGGAAGTAGATTTCGATATAGT GGGAAAGTTGCCAAAGAGGTGGTGGAGGCCAGTTCCAAGATCCAGAGGGAGCCTCCTGAGGTGCACAGAG CCAACATTACTCAGAGCCGCAGTTCCCACTCCTTGAACAAACAGCTCATCATTAACATGGAACCCCTGCA GCCCCTGCTTCCTTCCCCCAGCGAGCAAGAAGAAGAACTTCCTCTGGGTGAGGGTGTTCCATTGCCTAAA GAGGAGAACATTTCTGCTCCCTTGATCTCCAGCTCCCCAGTGAAGGCAGCCCGGGAGTATGAAGATCCCC CTAGTGAAGAGGAAGATAAAATAAAAGAAGAACCTTTAACCATCTCTGAACTAGTGTACAACCCAAGTGC CAGCCTGCTCCCCACCCCTGTGGATGACGATGAGATTGACATGCTCTTTGACTGTCCTTCTAGGCTTGAG TTGGAAAGAGAAGACACAGATTCATTTGAGGATCTGGAAGCAGATGAAAACGCCTTTTTGATTGCTGAAG AAGAGGAGCTGAAGGAGGCTCGCCGTGCTTTGTCGTGGAGCTATGACATTCTGACTGGCCATATTCGGGT GAACCCACTGGTCAAGAGTTTTTCCAGGCTCCTTGTGGTGGGCCTGGGACTGCTGCTCTTTGTATTTCCC CTGCTCCTCCTCCTTTTGGAGTCAGTCTCCATGCAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

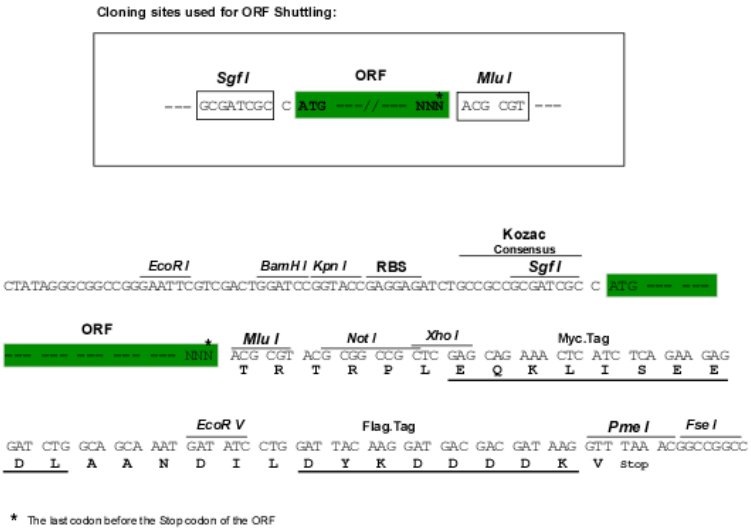
>RC232581 representing NM_001244961
Red=Cloning site Green=Tags(s)

MVFRRGQSPPVAEFNLLLKAHTLETYGVDPHPCKDSTGTTTFLGFTAAGFVVFQGNKRIHLIKWPDVCKL
KFEGKTFYVIGTQKEKKAMLAFHTSTPAACKHLWKCGVENQAFYKYAKSSQIKTVSSSKIFFKGSRFRYS
GKVAKEVVEASSKIQREPPEVHRANITQSRSSHSLNKQLIINMEPLQPLLPSPSEQEEELPLGEGVPLPK
EENISAPLISSSPVKAAREYEDPPSEEEDKIKEEPLTISELVYNPSASLLPTPVDDDEIDMLFDCPSRLE
LEREDTDSFEDLEADENAFLIAEEEELKEARRALSWSYDILTGHIRVNPLVKSFSRLLVVGLGLLLFVFP
LLLLLLESVSMQ

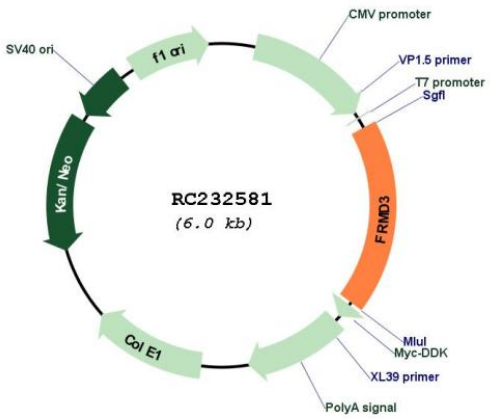
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001244961

ORF Size:	1086 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_001244961.1, NP_001231890.1
RefSeq Size:	1415 bp
RefSeq ORF:	1089 bp
Locus ID:	257019
UniProt ID:	A2A2Y4
Cytogenetics:	9q21.32
Protein Families:	Transmembrane
MW:	41.1 kDa
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]