

## Product datasheet for RC217519

### MARVELD3 (NM\_001017967) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MARVELD3 (NM_001017967) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MARVELD3
Synonyms:	MARVD3; MRVLDC3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217519 representing NM_001017967 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAAGATCCGTCGGGGGCTCGCGAGCCCCGGGCCCGGCGGAGAGAGCGGGACCCGGGACGGCGCCCC  
ACCCAGACCAAGGCCGCACCCACGATCGACCGGGACCGACCCGGGACCCGCGCAGGAAGCGAAGCAG  
CGACGGGAACCGGCAAGGGACGGGACCGGGACCCGAAGAGAGACCAGGAGAGGGACGGGAACCGCGAC  
CGGAACCGGGACCGGAGAGGGAGAGAGAGAGGGAAAGAGACCCGGACCGAGCCCCCGCGGGACACAC  
ACAGGGACCGGGCCCTCGCGCAGGTGAACACGGAGTTTGGGAAAACCGCGCAAAGCCGGACCGGGGA  
CGGAGCCCGGGGACTGACCTGGGACGCAGCCGCGCCTCCTGGGCCCGCGCCTGGGAAGCCCGGAGCCG  
CCGCAGCCGCAGAGGAAGGGAGACCCCGGGCGCCGAGACCCGAAAGTGAACCCCTTCGGAGAGATATC  
TGCCCTCGACCCAGGCCTGGACGAGAGGAGGTGGAATATTACCAGTCAGAGGCGGAAGGACTCCTGGA  
ATGCCACAAATGCAAATACTTGTGCACTGGGAGAGGTGTGGTGCAGATAGTGGAGGTGGTCTTGAATGGG  
ATGGTTCTCATATGCATCGTGGCCTCCTACTTTGTCTTGCCGGATTCACTGCCAGCTTTTCAGCGGGC  
GTGGCTTTGGGAACAATACTACTACCGTTTCGAGGGCACTGAGCTAGAGCAGGTTCCGCAGCTGGACCA  
GCAGTACACGATCCTCCGCTCGCCCTGATATACGGTGGCGTGGCTGTTTCTCTGGGTCTGGGGTCCCT  
ACCATGGGTGTTTACTCCAAGGAGCCAAGAGTCAACAATGTTGTGTCAGGGAAGTGGCTCCTCACGGAGG  
CCGCCTTCAGCCTCCTAGCGGCAGTGGGCTACTGCACAGGCAATTGGTGTTTACCTCCACGTGGCTCTGCA  
GATCAATAGCACCGACACTTGCAAAACAAGAGAGAGGCTCTATGCCCGCAAGGGTCTCACCTGGATGGAC  
TGCCAGCTGGCAGGACCGAGCAGGAGCAGCCACCTTTGCTTGTCTTCTCGTGATCATGTACGGCGCCA  
GCGTGGTGTGGCCCTGCGTAGCTACCGAGAACAAGCGCTACAAGGCAGCCGAGAACAGCCGGGAAG  
TTACAGTGATGCACCGGAATATCTGTGGTCTGGAACCTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RC217519 representing NM\_001017967  
Red=Cloning site Green=Tags(s)

MEDPSGAREPRARPRERDPGRRPHPDQGRTHDRPRDRPGDPRRKRSSDGNRRRDGDRDPKRDQERDGNRD  
 RNRDRERERERDRGPRRDTHRDAGPRAGEHGVWEKPRQSRTRDGARGLTWDA AAPP GPAPWEAPEP  
 P QPQRKGD PGRRRPESEPPSERYLPSTPRPGREEVEYYQSEAEG LLECHKCKYLCTGRGVVQIVEVVLNG  
 MVLICIVASYFVLAGFSASFSSGGGFNNYSPFEGTELEQVRQLDQQYITILRSPLIYGGVAVSLGLGVL  
 TMGVLLQGAKSRTMLSGKWLLTEAAFSLLA AVGYCTGIGVYLHVALQINSTD TCKTRERLYARKGLTWMD  
 CQLAGTDGAAATFACLLVIMYGASVVLALRSYREQKRYKGSREQPGSYSDAPEY LWSGTL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg3615\\_c01.zip](https://cdn.origene.com/chromatograms/mg3615_c01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001017967

**ORF Size:** 1230 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\\_001017967.4](#)

**RefSeq Size:** 2239 bp

**RefSeq ORF:** 1233 bp

**Locus ID:** 91862

**UniProt ID:** [Q96A59](#)

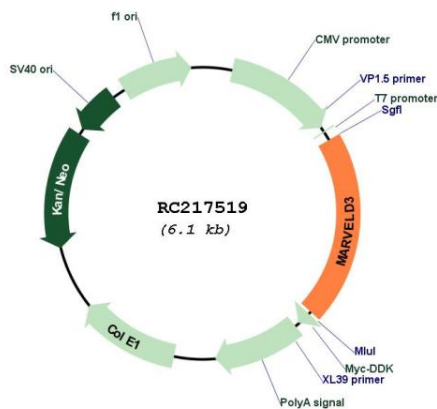
**Cytogenetics:** 16q22.2

**Protein Families:** Druggable Genome, Transmembrane

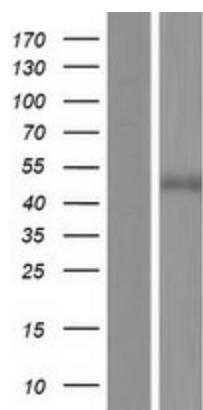
**MW:** 45.8 kDa

**Gene Summary:** As a component of tight junctions, plays a role in paracellular ion conductivity. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RC217519



Western blot validation of overexpression lysate (Cat# [LY422635]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217519 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).