

## Product datasheet for MR225365

### Marveld2 (NM\_178410) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Marveld2 (NM_178410) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Marveld2
Synonyms:	BC003296; MARVD2; Mrvldc2; Tric; Trica; Tricb; Tricc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225365 representing NM_178410 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGGCGACGGGACGCCGAGCCCGGGGTGGCCTTTCGCCCTGGGCACACATCCCCGGAGCCGCTC  
CCTCCCGCGCCAGGCTGAAGCGGGAGCACGCGGGCGCGCCGGGCTCCGGGGCGGCGTGGGCGGGTTTC  
GCTGCAGCGACAGGTGCGGCCGGCTGGACCGCCGCTCCTTCGGGGCGCCTGGTGGCGCCGCCCTCGCC  
ACTTTCCCGGCTGGCCTGACCGAGACAACGCCACCTTGGGGCGGAAGCCAGAGTGGATTTCCAGAGAA  
GAAAGCGAAGGCGGGACACGCACCGGATAAATGACCCGTCGTTGTCATCGAAAAGGAAAAATGTGTGAAGC  
GGCCATCAGTGATCGACAGAGGGATCAGGAAGTTAATGTCAAAGACTTGAGAACAACAATAAAATGACT  
CCTGAGCTGTTGAGTGGGCACATCCCTCCCGGCCACATCCGAAGCCTATCGTGATGCTGACTACGTGG  
CAAAATATCCTGTGATTCAGACAGATGACGATCGAGAAGCTATAAGGCTGTGTTCCAAGACCAGTTTTTC  
AGAGTACAAGAGCTGTCTGCGGAAGTGCAGGCCATCCTGAGGAAGTTTGACGAGCTGGACACAGTGATG  
AGCAGGCTCCACATCATTCTGAAAACCGCCAGGAACACGAGAGAATTTCAAGAATTCATGAAGAGTTTA  
GGAAAAAGAAGAATGACCCTTCGTTTCTGAAAAAAGGAGCGTTGCGATTACCTCAAGAACAACCTCTC  
TCACATAAAGCAAAGAATCAAGAATACGATAAAGTGATGAATTGGGATACGCAAGGTTATCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >MR225365 representing NM\_178410  
Red=Cloning site Green=Tags(s)

MRRRDAEPAGWAFRPGHTSPEPPPSRQAEAGARGRAGLRGRRGRVSLQRQVRPAGPPPSFRAPGGAALA  
 TFPAGLTETTATLGRKPEWIFQRRKRRRDTHRINDPSLSSKRKMCEAAISDRQRDQEVNVKDLRTTTKMT  
 PELLSGHIPPGHIPKPIVMPDYVAKYPVIQTDDDRERYKAVFQDQFSEYKELSAEVQAILRKFDELDTVM  
 SRLPHHSENHQEHERISRIHEEFRRKKNDPSFLEKKERCDYLNKLSHIKQRIQEYDKVMNWDTQGYF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_178410

**ORF Size:** 834 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\\_178410.3](#), [NP\\_848497.2](#)

**RefSeq Size:** 2203 bp

**RefSeq ORF:** 837 bp

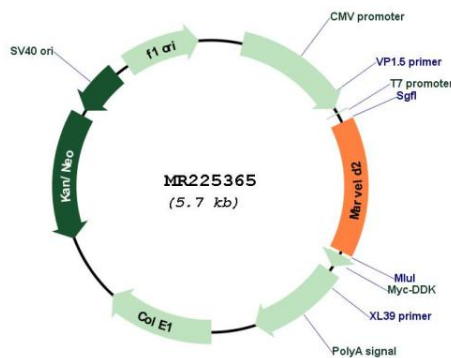
**Locus ID:** 218518

**Cytogenetics:** 13 D1

**MW:** 32.6 kDa

**Gene Summary:** Plays a role in the formation of tricellular tight junctions and of epithelial barriers (PubMed:16365161). Required for normal hearing via its role in the separation of the endolymphatic and perilymphatic spaces of the organ of Corti in the inner ear, and for normal survival of hair cells in the organ of Corti (PubMed:26677943).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR225365