

Product datasheet for **RG207659**

MARVELD2 (NM_001038603) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	MARVELD2
Synonyms:	DFNB49; MARVD2; MRVLDC2; Tric
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence: >RG207659 representing NM_001038603
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTCAAATGATGGAAGATCCAGGAATCGGGACAGGCGCTACGATGAGGTCCCAAGCGACCTGCCCTATC
 AAGATACCACCATAAGAACCCACCCAATTCTTCATGACAGTGAGCGGGCAGTGAGCGCTGATCCCTTGCC
 ACCACCCCCTCTCCATTACAGCCACCAATTCGGCCAGACTTCTACTCAAGTGACACAGAAGAACCAGCT
 ATAGCGCCAGATCTCAAACCAAGTAAAGCGCTTTGTCCCTGACTCCTGGAAGAACTTTTTAGAGGGAAGA
 AAAAGGACCCGAATGGGATAAGCCGGTGTCTGATATCAGGTACATCTCCGATGGAGTGGAGTGTTCACC
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 GAAGGAACCTTTAGTTCGCGAAAGAGGCTGACGCAAGTGTTCGCCGGGATCCCTATGGATCTCTAGACC
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 AGCAGATTGCCACATCATTGGAAGCCGACAGGAACATGAGAGAATTTCAAGAATCCATGAAGAGTTTA
 AGAAAAAAGAATGATCTACATTCTGAAAAAAGAAGCCTGTGATTACCTAAAGAATAAACTTTC
 TCACATAAAGCAAGAATTCAAGAATATGATAAAGTAAATGAATTGGGATGTACAAGTTATTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

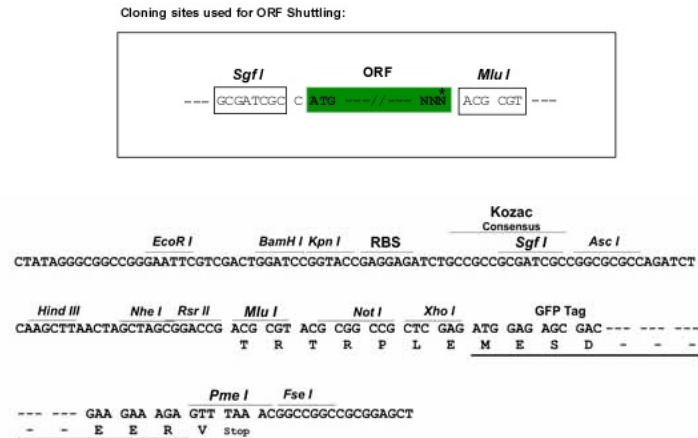
Protein Sequence: >RG207659 representing NM_001038603
 Red=Cloning site Green=Tags(s)

MSNDGRSRNRDRYDEVPDLPYQDTTIRTHPIIHDSERAVSADPLPPPPLPLQPPFGPDFYSSDTEEPA
 IAPDLKPVRRFVPDSWKNFFRGKKKDPEDKPVSDIRYISDGEVCSPPASPARPNHRSPLNSCKDPYGGG
 EGTFSRKEADAVFPRDPYGLDRHTQTVRTYSEKVEEYNLRYSYMKSWAGLLRILGVVELLLGAGVFAC
 VTAYIHKDSEWYNLFYSGPYGMGGVGLGSMYGGYYTGPKEPFLVAVGLAWITTTIILVLGMSMYR
 TILLDSNWWPLTEFGINVALFILYMAAAIVYVNDTNRGGLCYPLFNTPVNAVFCRVEGGQIAAMIFLHV
 TMIVYLISALVCLKLWRHEAARRHREYMEQQEINEPSLSSKRKMCEMATSGDRQRDSEVNFKELRTAKMK
 PELLSGHIPPGHIPKPIVMPDYVAKYPVIQTDDERERYKAVFQDQFSEYKELSAEVQAVLRKFDELDAVM
 SRLPHHSESRRQHEHERISRIHEEFKKKKNDPTFLEKKERCXYLKNKLSHIKQRIQEYDKVMNWDVQGYG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001038603

ORF Size: 1674 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_001038603.1](#), [NP_001033692.1](#)

RefSeq Size: 2282 bp

RefSeq ORF: 1677 bp

Locus ID: 153562

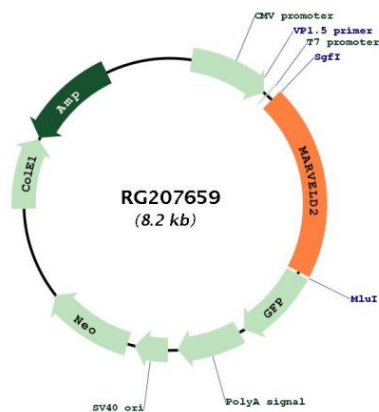
UniProt ID: [Q8N4S9](#)

Cytogenetics: 5q13.2

Protein Families: Transmembrane

Gene Summary: The protein encoded by this gene is a membrane protein found at the tight junctions between epithelial cells. The encoded protein helps establish epithelial barriers such as those in the organ of Corti, where these barriers are required for normal hearing. Defects in this gene are a cause of deafness autosomal recessive type 49 (DFNB49). Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]

Product images:



Circular map for RG207659