

## Product datasheet for **RC220050**

### TMIE (NM\_147196) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TMIE (NM_147196) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMIE
Synonyms:	DFNB6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220050 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGGGTGGCCGGGCGGGTCCCCTCTGCGTGCTGGGCGGCCGCACTCGGGGTGTGCCTCGCGG  
GGGTTGCCGGGCAGCTGGTGGAGCCAGCACGGCCCCACCAAGCCCAAGCCGCTCCGCTGACCAAGGA  
GACAGTGGTGTCTGGACATGCGCCTGTGGCAGTGGTGGGCATCTTTTCGCTCTTCGTGTTGTCCATC  
ATCATCACGCTGTGCTGTCTCAACTGTCGTGTGCCACGGACCCGGAAGGAGATCGAAGCCCGGTACC  
TGCAGCGAAAGGCAGCCAAGATGTACACAGACAAGCTGGAGACTGTGCCACCCCTCAATGAGCTCACAGA  
AGTCCCAGGAGAGGATAAGAAGAAGAAGAAGAAGAAGGACAGTGTGGACACAGTGGCCATCAAAGTA  
GAGGAGGATGAGAAGAATGAGGCCAAGAAGAAGAAGGAGAGAAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC220050 protein sequence Red=Cloning site Green=Tags(s)
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MAGWPGAGPLCVLGGAALGVCLAGVAGQLVEPSTAPPKPKPPPLTKETVVFWMRLWHVVGIFSLFVLSI  
IITLCCVFNCRVPRTRKEIEARYLQRKAAKMYTDKLETVPPLNELTEVPGEDKKKKKKKDSVDTVAIKV  
EEDEKNEAKKKKGEK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

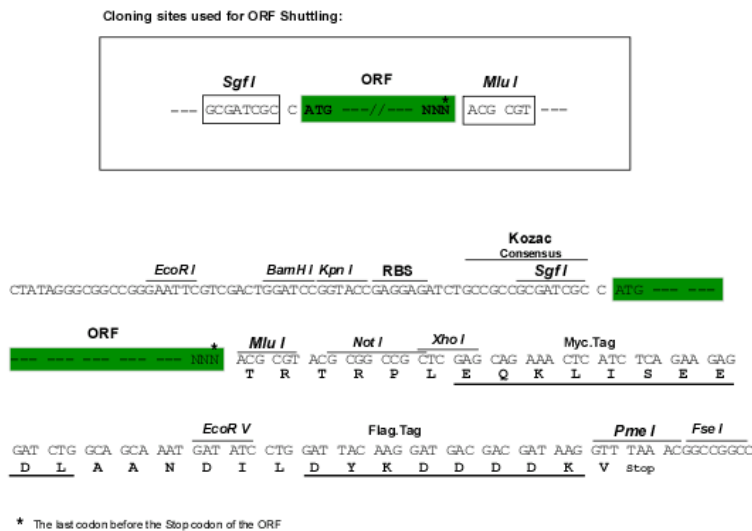
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**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_147196

**ORF Size:** 465 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\\_147196.1](#)

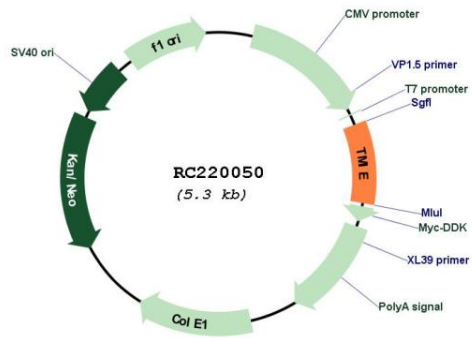
**RefSeq Size:** 1861 bp

**RefSeq ORF:** 471 bp

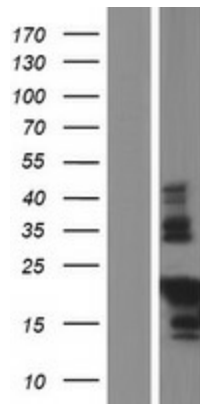
**Locus ID:** 259236

**UniProt ID:** [Q8NEW7](#)  
**Cytogenetics:** 3p21.31  
**Protein Families:** Transmembrane  
**MW:** 17.1 kDa  
**Gene Summary:** This gene encodes a transmembrane inner ear protein. Studies in mouse suggest that this gene is required for normal postnatal maturation of sensory hair cells in the cochlea, including correct development of stereocilia bundles. This gene is one of multiple genes responsible for recessive non-syndromic deafness (DFNB), also known as autosomal recessive nonsyndromic hearing loss (ARNSHL), the most common form of congenitally acquired inherited hearing impairment. [provided by RefSeq, Mar 2009]

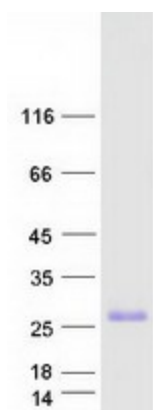
### Product images:



Circular map for RC220050



Western blot validation of overexpression lysate (Cat# [LY407788]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220050 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TMIE protein (Cat# [TP320050]). The protein was produced from HEK293T cells transfected with TMIE cDNA clone (Cat# RC220050) using MegaTran 2.0 (Cat# [TT210002]).