

Product datasheet for **RC235747**

TMEM14B (NM_001286489) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: TMEM14B (NM_001286489) Human Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: TMEM14B
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >RC235747 representing NM_001286489
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGAAGCCCTCTTCCCATAGTGCCTTTCATTGGTTTGGCTTTGGCTACACAGCACTGGTTGTTT
 CTGGTGGGATCGTTGGCTATGTAAAAACAGCCGCTACATCTGTTACTTTTGTGGTGTTATGGGAATGAG
 ATCCTACTACTATGGAAATTCATGCCTGTAGGTTTAATTGCAGGTGCCAGATGGAGTATGGCTCTTGTT
 GCCCAAGCTGGGTGCAATGGTGCATCTCAGCTCATTGCAACCTCCACCTCCAGGTTCAAGCGATTCT
 CCTGCCTACCCTCCTGAGTAGCTGGGATTTAGGTGTGCACCACCACCCAGCTAATTTTTGTATTT
 T

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235747 representing NM_001286489
 Red=Cloning site Green=Tags(s)

MEKPLFPLVPLHWFYGFYALVVSAGGIVGYVKAATSVTFVGVGMGRSYYYGKFMVGLIAGARWSMALV
 AQAGVQWCDLSSLQPPPPRFKRFSLTLLSSWDFRCAPHPANFLYF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_001286489

ORF Size: 351 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:

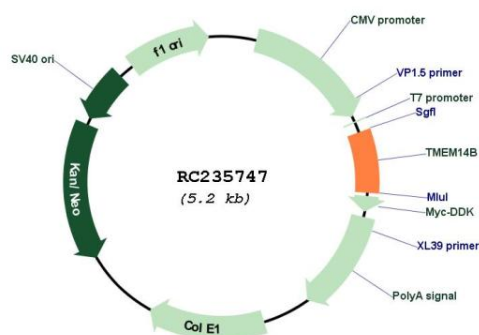
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_001286489.1](#), [NP_001273418.1](#)

RefSeq Size:	1209 bp
RefSeq ORF:	354 bp
Locus ID:	81853
Cytogenetics:	6p24.2
Protein Families:	Transmembrane
MW:	13.4 kDa
Gene Summary:	Primate-specific protein involved in cortical expansion and folding in the developing neocortex. May drive neural progenitor proliferation through nuclear translocation of IQGAP1, which in turn promotes G1/S cell cycle transitions.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC235747