

Product datasheet for RC200137

TMEM38B (NM_018112) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM38B (NM_018112) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMEM38B
Synonyms:	bA219P18.1; C9orf87; D4Ertd89e; OI14; TRIC-B; TRICB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200137 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGATTCTCCATGGGACGAGTTGGCTCTGGCCTTCTCCCGCACGTCCATGTTCCCTTTTGGACATCG
 CGCACTATCTAGTGTCAGTGATGGCGGTGAAACGTCAGCCGGGAGCAGCTGCATTGGCATGGAAGAATCC
 TATTTCAAGCTGGTTTACTGCTATGCTCCACTGTTTGGTGGAGGAATTTATCCTGTCTACTGCTTGCA
 GAGCCTCCATTGAAGTTTCTTGCAAACCACTAACATATTACTGGCATCTTCAATCTGGTATATTACAT
 TTTTTGCCCCGATGACCTAGTTTCCAGGGCTATTCATATCTACCTGTTCAACTACTGGCTTCGGGAAT
 GAAGGAAGTGACCAGAACTTGGAAAATAGTAGGTGGAGTCACACATGCTAATAGCTATTACAAAAATGGC
 TGGATAGTCATGATAGCTATTGGATGGGCCCAGGTGCAGGTGGTACCATTATAACGAATTTGAGAGGT
 TGGTAAAAGGAGATTGGAACCAAGGATGATGAATGGCTGAAGATGTCATACCCTGCCAAGGTAACCTT
 GCTGGGGTCAGTTATCTTACATTCCAGCACACCCAGCATCTGGCAATATCAAAGCATAATCTTATGTTT
 CTTTATACCATCTTTATTGTGGCCACAAAGATAACCATGATGACTACACAGACTTCTACTATGACATTTG
 CTCCTTTTGAGGATACATTGAGTTGGATGCTATTTGGCTGGCAGCAGCCGTTTTCATCATGTGAGAAGAA
 AAGTGAAGCAAAGTCACCTTCCAATGGCGTTGGGTCATTGGCCTCAAAGCCGGTAGATGTTGCCTCAGAT
 AATGTTAAAAAGAAACATACTAAGAAGAATGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC200137 protein sequence
 Red=Cloning site Green=Tags(s)

MDSPWDELALAFSRTSMFPFFDIAHYLVSVMAVKRQPGAAALAWKNPISWFTAMLHCFGGGILSCLLLA
 EPPLKFLANHTNILLASSIWIYITFFCPHDLVSQGYSLPVQLLASGMKEVTRTWKIVGGVTHANSYYKNG
 WIVMIAIGWARGAGGTIITNFERLVKGDWKPEGDEWLKMSYPKVTLLGSVITFTQHTQHLAISKHNLMF
 LYTIFIVATKITMTTQTSTMTFAPFEDTLSWMLFGWQQPFSSCEKKSEAKSPSNGVGSLSKPVVDVASE
 NVKKKHTKKNE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6396_c10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018112

ORF Size: 873 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_018112.3](#)

RefSeq Size: 3558 bp

RefSeq ORF: 876 bp

Locus ID: 55151

UniProt ID: [Q9NVV0](#)

Cytogenetics: 9q31.2

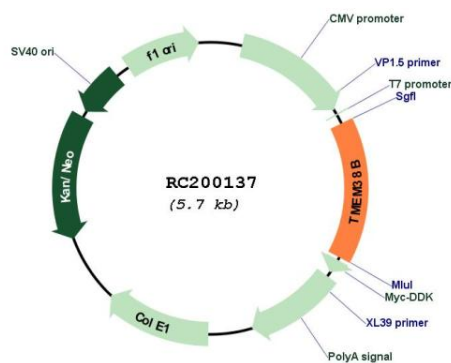
Domains: DUF714

Protein Families: Transmembrane

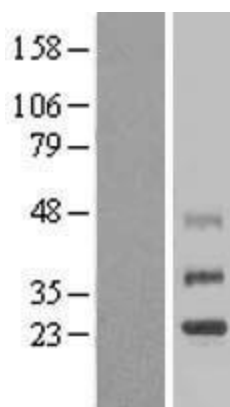
MW: 32.5 kDa

Gene Summary: This gene encodes an intracellular monovalent cation channel that functions in maintenance of intracellular calcium release. Mutations in this gene may be associated with autosomal recessive osteogenesis. [provided by RefSeq, Oct 2012]

Product images:



Circular map for RC200137



Western blot validation of overexpression lysate (Cat# [LY413299]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200137 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TMEM38B protein (Cat# [TP300137]). The protein was produced from HEK293T cells transfected with TMEM38B cDNA clone (Cat# RC200137) using MegaTran 2.0 (Cat# [TT210002]).