

Product datasheet for **MR204130**

Tmem38a (NM_144534) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem38a (NM_144534) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmem38a
Synonyms:	1110001E17Rik; AI413399; mg33a; TRIC-A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204130 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGACCTGATGTCAGCGCTGAGCCTGGGCGAGCTAGCGCTCAGCTTCTCGCGGGTGCCGCTCTTCCCTG
TTTTCGACCTCAGCTACTTCATCGTCTCCATCATCTACCTGAAGTATGAGCCAGGAGCTGTGGAGCTGTC
CCGGCGCCACCCTGTGGCGTCTGGCTGTGTGCCATGTTGCACTGTTTTGGGAGTTACATCTGGCCGAC
CTGCTTCTGGGAGCCCATATTGACTACTTCAGCAACAGCTCCAGTATCCTGCTGGCCTCTGGAGTGT
GGTACTTGATTTTCTTGTCCCTTGGACCTCTTCTACAAGTGTGTCTGCTTTCTGCCCGTAAAACATCAT
CTTTGTGGCTATGAAGGAGGTGGTGAGGGTCCGAAAGATCGCTGTGGGCATCCATCACGCACACCACCAC
TACCACCACGGGTGGTTCATCATGATCGCCACCGGTGGGTCAAAGGGTCTGGTGTGCCCTCCTGTCCA
ACGTGGAACAGTTGCTTCGAGGTGTCTGGAAGCCAGAACTAATGAGATCCTGCACATGTCTTCCCCAC
CAAGGCCAGTCTGATGGAGCCATCCTGTTACCTTGACAGACTCGCTGGCTCCCAGTGTCCAAGGCC
AGCCTCATTTTCGTCTTACCATGTTTATGGTGTATGTAAGGTGTTCTGACAGCCACACACTCCCACA
GTTCTCCATTTGATATCCTGGAGGGTTACATCTGCCAGTGTGTTGGGCAACTTGGGAGGCGACCA
TCACCATGACAACCATGGAGCACCACATGGCATGGGACTAGGCACCCAGCACTCCGGCCTGCCTGCCAAG
GCCAAGGAAGAGCTGGGCGAAGGATCCAGGAAGAAGAAGCAAGAAAGCGGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204130 protein sequence
Red=Cloning site Green=Tags(s)

```
MDLMSALSLGELALSFSRVLPVFDLSYFIVSIIYLYEPGAVELSRRHVPASWLCAMLHCFGSYILAD
LLLGEPIIDYFSNSSSILLASGVWYLIFCPLDLFYKCVCFPLVKLIFVAMKEVVRVKIavgihhahhh
YHHGWFIMIATGWVKGSGVALLSNVEQLLRGVWKPETNEILHMSFPTKASLYGAILFTLQQTRWLPVSKA
SLIFVFTMFVMSCKVFLTATHSHSSPFDILEGYICPVLFGATWGGDHHHDNHGAPHGMGLGTQHSGLPAK
AKEELGEGSRKKKTKKAD
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_144534

ORF Size: 897 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_144534.2](#)

RefSeq Size: 2109 bp

RefSeq ORF: 897 bp

Locus ID: 74166

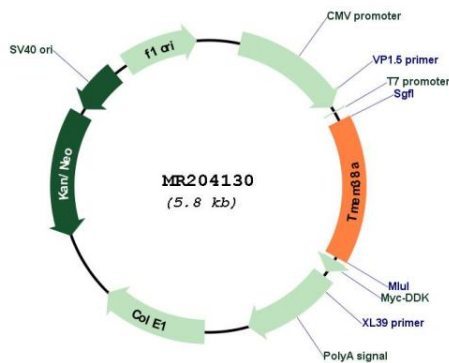
UniProt ID: [Q3TMP8](#)

Cytogenetics: 8 B3.3

MW: 33.3 kDa

Gene Summary: Monovalent cation channel required for maintenance of rapid intracellular calcium release. May act as a potassium counter-ion channel that functions in synchronization with calcium release from intracellular stores.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204130