

## Product datasheet for **MR210738**

### **Tmem63c (NM\_172583) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tmem63c (NM_172583) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmem63c
Synonyms:	4932420N09; 9330187M14Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR210738 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGCCTTTCCAGACAGCATGGACCAGAAGTTTCATAACATGACGGTGAATGAGTGCTTCCAGTCCG  
 GGAGCACTGTCTCCAGGGCAGCCCTTTGGGGGATCCCACCGTGCTGTAACAACATCATCTTATG  
 GGTGTTTCGTTGTCTGCTTTATTCTTCTCCGAAAGCTGCGTGGGACTACGGGAGGCTGGCACTGCTG  
 ATACACAACGACAGCCTGACCTCACTGATCTACGGGGAGCAAAGTGAGAAGTCACTCCGTGAGAGGTTT  
 CCTTGGAGGCGGAACGCAGGGACAGGGCTTCTTCTGCTTCTTCAACAGCCTAACCTGAGGGACCG  
 GGACCTGATCAACAAATGCGGGGATGATGCGCGAATTTACATCACGTTCCAGTATCACCTCATCATCTTT  
 GTGCTCATCTCTGCATCCCTCCCTGGGCATCATTTTGCCTGTTAACTACATTGGAAGTGTCTGGACT  
 GGAACAGTCACTTTGGCCGGACCACCATTGTCAATGTCTCTACAGAGAGCAAGTTCCTGTGGCTGCATAG  
 CCTCTTCGCGTTCTGTACTTCCATCAACCTTGCCTTTCATGGGTCACTACTGCTTGGGATTTGTGCCA  
 AAGAAGAGCCTCCACTTACAGAGACACTGATGATCACCTATGTACCCACTGAAATCCAGGATCCCAGAGA  
 TCATCAGCAAGCACTTCCATGAGGCCTATCCTGGATGTGTGGTGACCAGAGTCCATTTCTGCTATGATGT  
 CAGGAACCTGATTGACTTGGATGATCAAAGCGCCATGCCATGCGGGGACAGGCTCTACTACACGGCCAAG  
 GCTAAGAAGACTGGGAAGGTCAATGATCAAGACACATCCCTGTTCCCGCCTGTGCTTCTGCAAATGTTGGA  
 CCTGCTTCAAGGAGGTAGATGCGGAGCAGTACTACAGTGAAGTGGAGGAGCAGCTGACAGACGAGTTCAA  
 TGCTGAGCTTAACTCGTGTCCAGTGAAGAGGCTTGACCTGATCTTGTACCTTCCAGGATGCCAGGACA  
 GTGAGAGCATCTATGATGATTACAAGTACATCCATTGTTAGACACCCCAAGCAGTCTTCAGTACGCA  
 CCATCGTCAAAAACCTACCCTGGAGGGTTGCTCATGCCCCACCCCAAGACATCATCTGGAAGCACCT  
 GTCATCCGCGCTTTCAGTTGGTGGACTCGCTTATCGCCATCAATACCTTCTGTTCTTCTCTCTTCTT  
 TTTCTACCACACCTGCCATCATCATCAACACCATCGACATATAAATGTCAACCCGCCATTGAGAAAT  
 TGCAGAGCCCAATCGTGACTCAGTTCTTCCCTCTGACTGCTCTGGGCCTTCACTGTGACAATGCCTCT  
 GCTGGTCTACTTATCGGCCTTCTAGAGGCCCACTGGACAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCA  
 AAATGCTACATCTTCTGGTGTATGTTGGTGTCTTCTTCCCTCCATGGGGCTGACCAGTCTGCATGTGT  
 TTTTACGATGGCTCTTTGACATCTACTATCTTGAACATGCGACCATCAGGTTCCAGTGCCTGTTCTCTCC  
 AGACAATGGTGCATTCTCATCAACTACGTGATCACAGCGGCTCTGCTTGGGACAGGCATGGAGCTGATG  
 CGCTGGGGTCACTCTGCACATATTGTACCCGCTCTTCTTATCAAATCAGAGCCAGAAAGAGTTCACA  
 TCAGAAAGAACCAAGCCACAGATTTCCAGTTTGGACGAGAGTATGCATGGATGTTGAACGCTTTCAGCGT  
 GGTGATGGCGTATAGCATCACTTGCCTATCATTGTCCTGTTGGGCTGCTGATCTGTGCATGAAGCAC  
 ATTACAGACCGCTATAACATGTAATACTACTCCTACGCGCCCAAACTCAACGCGCAGATCCACATGGCCG  
 CAGTCTACCAGGCCATTTTGGCCCACTTGGGGCTCTTCTGGATGCTCTTCTTCTCCATCCTGCGAGT  
 AGGTTCCCTCCACAGCATCACCTTATTCTCCATGTCTTCCCTCATCATCTCCGTGGTCAATGCCTTTTCT  
 GGTGTTTTTCTGGGAAGCTCCGGATTGCCAACGGTATGAGCAGCCTGAGGAAGAAACAGAGACTGTGT  
 TTGATGTGGAACCAAGCAGCACCTCCACTCCACCTCCCTTGTACGTGGCCACCGTGTACAGGA  
 GCCAGAGCTGAACCTGACCCCGCTCCTCCCCAGCCCGGCACACCTATGGCACCATCAACAGCCAGCCA  
 GAAGAGGGAGAAGAAGAGAGCGGTCTGAGGGGCTTGAAGGGAGCTGGACTCAGCCAGTTCAGGAAG  
 GGCTGAAATGGAGGGCCAGAGTCA

**ACGCGT**ACGCGCGCCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR210738 protein sequence  
 Red=Cloning site Green=Tags(s)

MSAFPDSMDQKFHNMTVNECFQSRSTVLQGQPFGGIPTVLVNLIIILWVFVLLYSFLRKAAWDYGRLL  
 IHNSLTSLIYGEQSEKSSPSEVSLEAERRDRGFSSWFNSLTMRDRDLINKCGDARIYITFYHLIIF  
 VLILCIPSLGIILPVNYIGTVLDWNSHFGRTTIVNVSTESKFLWLHSLFAFLYFLINLAFMGHHCLGFVP  
 KKSLLHFTRTLMITYVPTEIQDPEIISKHFHEAYGCVVTRVHFCYDVRNLIDLDDQRRHAMRGRLYYTAK  
 AKKTGKVMIKTHPCSRFCCKCWTFCKEVDAEQYSELEEQLTDEFNAELNRVQLKRLDLIFVTFQDART  
 VRRYDYDYKYIHCGRHPKQSSVTTIVKNYHWRVAHAPHPKDIWKHLSIRRFSSWTRFIAINTFLFFLFF  
 FLTPPAIIINTIDIYNVTRPIEKLQSPIVTQFFPSVLLWAFTVTMPLLVLVYSAFLEAHWTRSSQNLIIIVH  
 KCYIFLVFMVILPSMGLTSLHVFLRWLFDIYYLEHATIRFQCVFLPDNGAFFINYVITAALLGTGMELM  
 RLGSLCTYCTRLFLSKSEPERVHIRKNQATDFQGREYAWMLNVFSVVMAYSITCPIIVPGLLYLCKMH  
 ITDRYNYMYSYAPTCLNAQIHMAAVYQAIFAPLLGLFWMLFFSILRVGSLHSITLFSMSSLIIISVVI  
 AFSGVFLGKLRIARQYEQPEEETETVFDVEPSSTTSTPTSLLYVATVLQEPELNLTASSPARHTYGTINSQP  
 EEEEEGLRGFARELDSAQFQEGLEMEGQSH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_172583

**ORF Size:** 2409 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\\_172583.3](#)

**RefSeq Size:** 3369 bp

**RefSeq ORF:** 2409 bp

**Locus ID:** 217733

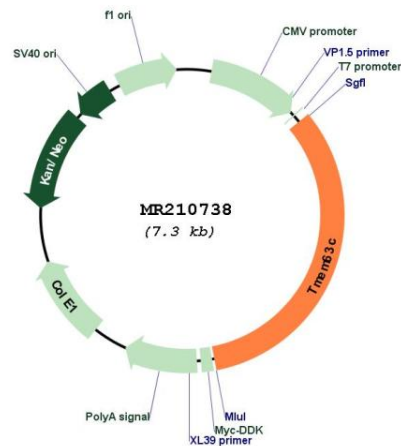
**UniProt ID:** [Q8CBX0](#)

**Cytogenetics:** 12 D2

**MW:** 93 kDa

**Gene Summary:** Acts as an osmosensitive calcium-permeable cation channel.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR210738