

Product datasheet for **MR210748**

Tmem63a (NM_144794) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem63a (NM_144794) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmem63a
Synonyms:	BC014795; Tmem64a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR210748 representing NM_144794
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCAGCTCCCCGTTCTGGATCCCTGGCCGTCCAAGGCTGTGTTTGTCCGTGAGCGCCTGGGTCTTG
 CGAACGTCCTAATGACTCCTATTGCTACAACCTCAGCCAAAAACAGCACTGTGCTCCAAGGGGTCACCTT
 TGGAGGCATCCCCACTGTCTGCTTTAGATGTCAAGTTGCTTTTCTGTTTCTAATCCTGGTGTTCATC
 ATAAGGAGAAGATTCTGGGATTATGGCCGATAGCCCTGGTATCAGAAGCAGGCAGTGAGCCAGGTTC
 AGAGACTGTCTCTCCTCCTCAGGGCAACAAGACTTTGAAAACGAGCTGGGATGCTGCTTGGCTGAC
 GGCCATCTTCGCTGCATGACGACCAGATCCTGGAGTGGTGGGAGAGGACGCCATCCACTACCTGTCT
 TTTAGAGGCACATCATCTTCTGCTGGTGGTGTGATCAGCTTCTGTCCCTGTGTGCATCTTGCCTGTCA
 ACCTCTCGGGAGACTTGTGGGTAAGACCCCTACAGCTTTGGGAGGACAACGATAGCTAACCTGCAGAC
 TGACAATGACCTCCTCTGGCTGCACACTGTCTCAGCGTATCTACCTTTCCTCAGGTTGGCTTCATG
 TGGCATCACACAGGTCATCAGATACAAAGAGGAGAGTCTGGTGGAGACAACCTTGTTCATCACAGGAC
 TCCCCAGAGAAGCCAGAAAGGAGACTGTGGAGAGCCACTTCCGAGATGCGTATCCCACGTGTGAGGTGGT
 GGATGTCCAGCTGTGCTACAGCGTGGCTAAGCTGATCTACCTGTGCAAAGAGAGAAAAGAACCCGAGAAG
 AGCCTTACCTATTACAAAACCTGCAGGCGAAGACAGGCCGACGGACCCTCATCAACCCCAAGCCTGTG
 GCCAGTTCTGCTGTGAAGTTCAGGGTTGTGAGCGGGAAGATGCTATTTCTTACTACACTCGAATGAA
 TGACAGCCTGTGGAGAGGATCACAGCCGAAGAGAGCCGGTCCAGGACCAGCCCTGGGAATGGCCTTT
 GTCACCTCCGTGAGAAGTCCATGGCTACCTACATACTGAAAGACTTCAATGCCTGCAAGTGGCAGGGCC
 TTCGGTCAAAGGGGAGCCCCAGCCATCCTCTATAGCAGAGAGCTCTGTGTCTCCAAGTGGCAGGTCAC
 TTTTGCCTCCTATCCTGAGGACATCTGCTGGAAGAACCCTCCATCCAGGGCGTTGCTGGTGGCTCCAG
 TGGCTGGGTATCAACTTCTCTGTTTGTGGTGTGTTTTTCTGACCACGCCCTCCATCATTATGTCTA
 CCATGGACAAGTCAATGTTACAAAACCCATCCACGCACTGAATAACCCCGTATCAGCCAGTTCTTCCC
 CACTCCTGCTGTGGTCTTCTGCGCTGCTCCGTCATTGTCTACTACTCCAGCTGCTGGAGTCC
 CACTGGACAAGGTCAGGGGAAAACCGGATCATGGTGTGGAAGTCTACATATTTTGTATCTTATGGTGC
 TGATCCTGCCCTCCCTCGGTCTCACCAGCTTGGATTTCTTCTCCGGTGGCTCTTTGACAAAACCTCCTC
 GAAAACCTCAATCAGGCTAGAGTGTGCTTCTGCCAGACCAGGGTGCCTTCTTGTGAACTACGTCATC
 GCCTCAGCCTTATCGGCAGTGGCATGGAGCTGTTGCGCCTGCCGGCCTCATCCTCTATACCTTCCGCA
 TGATCATGGCCAAGACGGCCGCTGACCCGAGGAATGTTAAGCAGAACCAGGCTTTTGAATACGAGTTTGG
 AGCCATGTATGCGTGGATGCTGTGTGCTTACCGTATCATGGCTTACAGCATCACTGCCCATATC
 GTGCCCTTTGGCCTCATCTACATCCTGCTTAAGCAGATGGTGGACCGGCATAACCTCTACTTCGTTACC
 TCCCGGCTAAACTGGAGAAGAGGATCCACTTCGCCGCGTGAACCAGGCCCTGGCCGCCCCATCCTCTG
 CCTCTTGGCTCTTCTTTTCTCCTCCTCCGCTGGGTCTGACGGCCCCGGCCACGCTTTCACCTTC
 CTGGTTGTCTGCTCACCATCCTGGCTGCCTGCTGTACACCTGCTTTGGATGCTCAAGCACCTCAGCC
 CATGGAACAAGACAGAAGAATCAGCTAGTGACAAAGGAAGCGAAGCCGAGGCCACGTGCCCGCCG
 ATTCACACCCTATGTGCCTCGGATCTGAACGGTTTGGCCTCAGAGAGGACAGCGTTATCCCCACAGCAG
 CAGCAGACCTACGGTGCCATCCGTAACATCAGTGGGACTTCTCCGGCAGCCCGTGGCTCAAGATCCTA
 GTGGCACTGCGGCTTATGCCTACCAGGAATCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210748 representing NM_144794
Red=Cloning site Green=Tags(s)

MTSSPFLDPWPSKAVFVRERLGLGERPNDSYCYNSAKNSTVLQGVTGGIPTVLLLLDVSCFLFLILVFSI
IRRRFDYGRIALVSEAGSEARFQRLSSSSSQQDFENELGCCPWLTAIFRLHDDQILEWCGEDAIHYLS
FORHIIIFLLVVISFLSLCVILPVNLSGDLLGKDPYSFGRTTIANLQTDNDLLWLHTVFSVIYFLFTVGF
WHHTRSIRYKEESLVRQTLFITGLPREARKETVESHFRAAYPTCEVVDVQLCYSVAKLIYLCKERKKTEK
SLTYYTNLQAKTGRRTLINPKPCGQFCCCEVQGCEREDAISYYTRMNSLLERITAEESRVQDQPLGMAF
VTFREKSMATYILKDFNACKCQGLRCKGEPQSSYSRELCVSKWTVTFASYPEDICWKNLSIQGVRWWLQ
WLGINFSLFVVLFFLTTPSIIMSTMDKFNVTKPIHALNPNVISQFFPTLLLWSFSALLPSIVYYSTLLES
HWTRSGENRIMVSKVYIFLIFMVLILPSLGLTSLDFFRWFDFKTSSETSIRLECVFLPDQGAFFVNYVI
ASAFIGSGMELLRLPGLILYTFRMIMAKTAADRRNVKQNAFEYEFGAMYAWMLCVFTVIMAYSITCPII
VPFGLIYILLKHMVDRHNL YFAYLPAKLEKRIHFAAVNQALAAPILCLFWLFFFSLRLGLTAPATLFTF
LVVLLTILACLLYTCFGCFKHLSPWNYKTEESASDKGSEAEAHVPPFPYVPRILNGLASERTALSPQQ
QPTYGAIRNISGTLPGQPVAQDPSGTAAYAYQES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9013_a03.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_144794

ORF Size: 2412 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_144794.2](#), [NP_659043.1](#)

RefSeq Size: 3239 bp

RefSeq ORF: 2415 bp

Locus ID: 208795

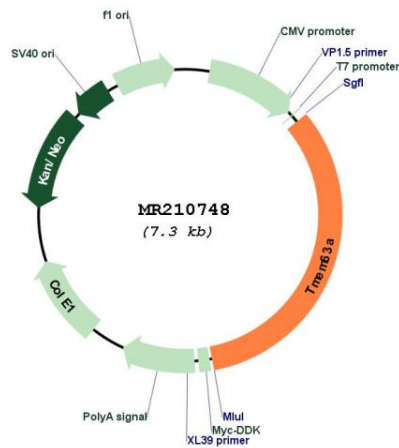
UniProt ID: [Q91YT8](#)

Cytogenetics: 1 H4

MW: 92.3 kDa

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

Product images:



Circular map for MR210748