

Product datasheet for **MR221527**

Tmem63b (NM_198167) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem63b (NM_198167) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmem63b
Synonyms:	BC026370
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR221527 representing NM_198167
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTGCCGTTCTTGCTGGCCACTGGGCACCGCGCCCTCAACAGCAGCAACCCGAAGGACTACTGCT
 ACAGTGCCCGGATCCGCAGCACTGTCTGCAGGGCCTGCCCTTCGGGGGGTCCCCACCGTCTGGCTCT
 GGACTTCATGTGCTTTCTGCCCCTGCTGTTCTTATTCTCTATTCTCCGGAAGGTGGCCTGGGACTACGGG
 CGGCTGGCCTTGGTGACAGATGCAGACAGGCTTCGCCGCGAGGAGGGAGCGAGTGAACAGGAATATG
 TGGCATCAGTATGCATGGGGACAGTCACGACCGGTATGAGCGTCTCACCTCCGTCTCCAGCTCTGTCTGA
 CTTTGACCAAAGGGACAATGGCTTCTGTTCTGGCTGACAGCCATCTTCAGGATAAAGGACGATGAGATC
 CGGACAAGTGTGGGGCGACGCTGTGCACTACCTGTCTTCCAAAGACACATCATTGGGTTGCTGGTTG
 TCGTGGGCGTCTCTGTAGGCATTGTCTGCCTGTCAACTTCTCAGGGGACCTGCTAGAGAACAATGC
 CTACAGCTTTGGGAGAACCACCTTGCCAACTGAAATCAGGGAATAACCTGCTCTGGCTACATACCTCC
 TTGCCTTCTCTACCTGCTGCTCACCGTCTACAGCATGAGGAGACACACCTCTAAGATGCGCTACAAGG
 AAGATGATCTGGTCAAGCGGACTCTTTTCATCAATGGAATCTCCAATATGCAGAGTCGGAAAAATCAA
 GAAACATTTTCGAGGAGGCTACCCCACTGCACAGTCTGGAAGCCCGGCCCTGTTACAACGTGGCTCGA
 CTTATGTTCTTGATGCTGAGAGGAAGAAGGCTGAGCGGGGAAAACCTCTACTTTACGAACCTGCAAAGCA
 AGGAAAATGTACCCGCCATGATCAACCCCAAACCGTGTGGTCACTCTGCTGCTGTGTGGTTTCGAGGCTG
 CGAGCAGGTGGAGGCCATTGAGTACTACAAAAGCTGGAGCAGAGGCTGAAGGAAGACTACAGCGGGAG
 AAGGAGAAAGTGAACGAGAAACCTCTGGCATGGCCTTTGTACCTTCCACAATGAGACCATCACAGCCA
 TCATCCTAAAGGACTTCAACGTGTGCAAAATGCCAGGGCTGTACCTGCCGCGGGGAGCCGAGAGCTCCTC
 CTGCAGCGAAGCACTGCATATCTCCAACCTGGACCGTGACCTACGCCCTGACCCTCAGAACATCTATTGG
 GAACACCTCTCCATCCGAGGCTTCATCTGGTGGCTGCGCTGCCTGGTCAATGTGGTCTCTTATTTC
 TGCTCTTCTTCTCACCACCCCGGCCATCATCACCACCATGGACAAGTTCAACGTCAACAAGCTGT
 GGAGTACCTCAACAACCCGATCATCACCCAGTCTTCCCTACGCTACTGCTGTGGTGTCTCTCGGCCCTG
 CTCCCCACCATTTGCTACTACTCCGCTTCTTGAAGCAGACTGGACGCGCTCCGGGGAGAACAGGACGA
 CCATGCACAAGTGTACACCTTTCTCATCTTCATGGTGTGCTTCTGCCCTCGTGGGGTGTGACAGCT
 AGACCTCTTCTCCGCTGGCTCTTGTACAAGAAATTCCTGGCTGAAGCAGCTATTCGGTTTGAGTGTGTG
 TTCTTCCCGACAACGGCGCTTTCTTGTGAACACTACGTCATTGCCTCAGCCTTTATCGGTAACGCCATGG
 ACCTGCTGCGCATCCAGGCCTACTCATGTACATGATCCGGCTCTGCCTGGCGCGCTCCGCCGCTGAAAG
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 TTCACGGTGGTACGACTACAGTATCACCTGCCCATCATCGTGCCCTTCGGGCTCATGTACATGCTGC
 TGAAGCACCTGGTAGACAGGTACAATCTCTACTACGCTACTTGGCCGCAAACTGGACAAGAAGATCCA
 CTCGGGGGCTGTGAACAGGTGGTGGCTGCGCCATCCTCTGCCTCTTCTGGTTGCTCTTCTTCCACC
 ATGCGCACGGTTTCTAGCCCCACGCTATGTTACCTTCGTTGTTCTGGTAATCACCATCGTCATCT
 GTCTCTGCCACGTCTGCTTTGGACACTTCAAATACCTCAGTGCCCAACTACAAGATTGAACACACAGA
 GACAGATGCCGTGAGCTCCAGAAGTAATGGACGGCCCCCACTGCTGGCGCTGTCCCAAATCTGCGAAA
 TACATCGCTCAGGTGCTGCAGGACTCAGAGGGGGACGGGACGGAGATGGGGCTCCTGGGAGCTCAGGCG
 ATGAGCCCCATCGTCTCCTCCAAAGACGAGGAGTTGCTGATGCCTCCTGATGGCTCACGGACACAGA
 CTTCCAGTCATGCGAGGACAGCCTCATAGAGAATGAGATCACCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR221527 representing NM_198167
Red=Cloning site Green=Tags(s)

MLPFLLATLGTAALNSSNPKDYCSARIRSTVLQGLPFGGVPTVLALDFMCFLLALLFLFSILRKVAWDYG
RLALVTDADRLRRQERERVEQEYVASAMHGDSHDYERLTSVSSSVDFDQRDNGFCSWLTAIFRIKDDEI
RDKCGGDAVHYLSFQRHIIGLLVVVGVLSVGIVLPVNFSGDLENNAYSFGRTTIANLKSGNLLWLHTS
FAFLYLLLTVYSMRRHTSKMRYKEDDLVKRTLFIGISKYAESEKIKKHFEAYPNCTVLEARPCYNVAR
LMFLDAERKKAERGKLYFTNLQSKENVPAMINPKCGHLCCCVVRGCEQVEAIEYYTKLEQRLKEDYRRE
KEKVNEKPLGMAFVTFHNETITAIILKDFNVCKCQGCTCRGEPRASSCSEALHISNWTVTYAPDPQNIYW
EHL SIRGFIWWLRCLVINVVLFI LLFFLTTPAIIITMDKFNVTKPVEYLNPIITQFFPTLLLWCF SAL
LPTIVVYSAFFEAWTRSGENRTTMHKCYTFLIFMVLLPSLGLSSLDLFFRWLFDKKFLAEAAIRFECV
FLPDNGAFFVNYIASAFIGNAMDLLRIPGLLMYIRLCLARSAEERRNVKRHQAYEFQFGAAYAWMMCV
FTVVMYSITCPIIVPFGLMYMLLKHLVDRYNLYYAYLPAKLDKKIHSGAVNQVVAAPILCLFWLLFFST
MRTGFLAPTSMTFVVLVITIVICLCHVCFGHFKYLSAHNYKIEHTETDAVSSRSNGRPPTAGAVPKSAK
YIAQVLQDSEGDGDGAPGSSGDEPPSSSSQDEELLMPDGLTDTDFQSCEDSLIENEIHQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9003_g09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_198167

ORF Size: 2496 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_198167.3](#), [NP_937810.2](#)

RefSeq Size: 3237 bp

RefSeq ORF: 2499 bp

Locus ID: 224807

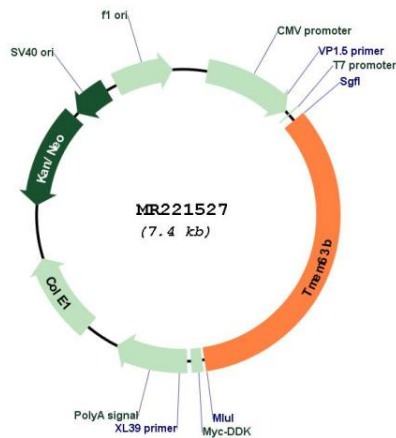
UniProt ID: [Q3TWI9](#)

Cytogenetics: 17 B3

MW: 95.2 kDa

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

Product images:



Circular map for MR221527