

Product datasheet for MR203020

Tmem109 (NM_134142) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tmem109 (NM_134142) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Tmem109
Synonyms: 1110006I15Rik; AA958958; C77652
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR203020 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGGCGCACACAGCACTCCGTTATGGAGCAGACATCTGCTCAAAGCTGTCCTGATGGTCTCGTGG
CCCTTTTCCTCGTCCACTCCGCATCAGCCAGTCTCATCGAGAGTTTGCCTCACCTGGTCAACAGAAGAA
GGAGACCTCAGCTGATATTTGACCCAGATTGGCCGATCTCTGAAGGAGATGTTGGATACCTGGCTAGGG
CCAGAGACCATGCATGTGATTTAGAGACCCTGTTGCAGGTGATGTGGCCATCTCATCAGCCATCTCTG
TGGCCTGCTTTGCCCTGTCTGGATTGCTGCCAGTTGCTGAGTGCCCTGGGGCTGGATGGTGAACAACT
CACCCAGGGCTTGAAGCTCAGCCCTAGCCAAGTCCAGACCCTTCTACTGTGGGGAGCAGCAGCACTGGTC
ATCTACTGGTTGCTGTCCCTGCTCCTAGGCTTGGTCTTGGCCTTGTAGGGAGGATCCTGGGGGGTCTGA
AACTTGTCTTTTTGTCGCTGGCTTTGTGGCCCTGGTGGAGTCTGTGCCCGACCCATCTACCCGGGCCTT
GATGCTCTTGGCCTTGTAACTCTTTTGCCTTGTGAGCCGGCTCACTGGCTCCAGGAGCTCAGGGAGC
CACCTGGAAGCCAAGGTGAGAGGGCTGGAGCGCCAGATAGAAGAGCTTAGAGGGAGGCAGAGGCGGAGCAG
CCAAGATGCCAGGAGCATGGAAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203020 protein sequence
 Red=Cloning site Green=Tags(s)

MAGAHSTPLWSRHLLKAVLMVLVALFLVHSASAQSHREFASPGQQKETSADILTQIGRSLKEMLDTWLG
 PETMHVISETLLQVMWAISSAISVACFALSGIAAQLLSALGLDGEQLTQGLKLSQSQVQTLWWGAAALV
 IYWLLSLLLGLVLALLGRILGGLKLVLFVAGFVALVRSVPDPSTRALMLLALLTLFALLSRLTGSRSRSGS
 HLEAKVRGLERQIEELRGRQRAAKMPRSMEEE

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_134142

ORF Size: 732 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_134142.1](#), [NP_598903.1](#)

RefSeq Size: 1943 bp

RefSeq ORF: 732 bp

Locus ID: 68539

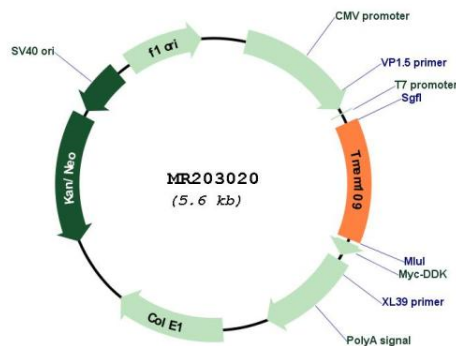
UniProt ID: [Q3UBX0](#)

Cytogenetics: 19 A

MW: 26.3 kDa

Gene Summary: May mediate cellular response to DNA damage by protecting against ultraviolet C-induced cell death (PubMed:20060811). Can form voltage-gated calcium and potassium channels in vitro (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203020