

Product datasheet for **MG203020**

Tmem109 (NM_134142) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tmem109 (NM_134142) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Tmem109
Synonyms: 1110006I15Rik; AA958958; C77652
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG203020 representing NM_134142
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCAGGCGCACACAGCACTCCGTTATGGAGCAGACATCTGCTCAAAGCTGTCTGATGGTCTCGTGG
 CCCTTTTCCTCGTCCACTCCGCATCAGCCAGTCTCATCGAGAGTTTGCCTCACCTGGTCAACAGAAGAA
 GGAGACCTCAGCTGATATTTGACCCAGATTGGCCGATCTCTGAAGGAGATGTTGGATACCTGGCTAGGG
 CCAGAGACCATGCATGTGATTTAGAGACCCTGTTGCAGGTGATGTGGCCATCTCATCAGCCATCTCTG
 TGGCCTGCTTTGCCCTGTCTGGATTGCTGCCAGTTGCTGAGTGCCTGGGGCTGGATGGTGAACAACT
 CACCCAGGGCTTGAAGCTCAGCCCTAGCCAAGTCCAGACCCTTCTACTGTGGGGAGCAGCAGCACTGGTC
 ATCTACTGGTTGCTGTCCCTGCTCCTAGGCTTGGTCTTGGCCTTGTAGGGAGGATCCTGGGGGGTCTGA
 AACTTGTCTTTTTGTCGCTGGCTTTGTGGCCCTGGTGAAGTCTGTGCCCGACCCATCTACCCGGGCCTT
 GATGCTCTTGGCCTTGTAACTCTTTGCCTTGTGAGCCGGCTCACTGGCTCCAGGAGCTCAGGGAGC
 CACCTGGAAGCCAAGGTGAGAGGGCTGGAGCGCCAGATAGAAGAGCTTAGAGGGAGGCAGAGGCCAGCAG
 CCAAGATGCCAGGAGCATGGAAGAAGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203020 representing NM_134142
Red=Cloning site Green=Tags(s)

MAGAHSTPLWSRHLLKAVLMVLVALFLVHSASAQSHREFASPGQKQKETSADILTQIGRSLKEMLDTWLG
 PETMHVISETLLQVMWAISSAISVACFALSGIAAQLLSALGLDGEQLTQGLKLSPSQVQTLWWAAALV
 IYWLLSLLLGLVLALLGRILGGLKLVLFVAGFVALVRSVPDPSTRALMLLALLTLFALLSRLTGSRSRSGS
 HLEAKVRGLERQIEELRGRQRAAKMPRSMEEE

TRTRPLE - GFP Tag - V

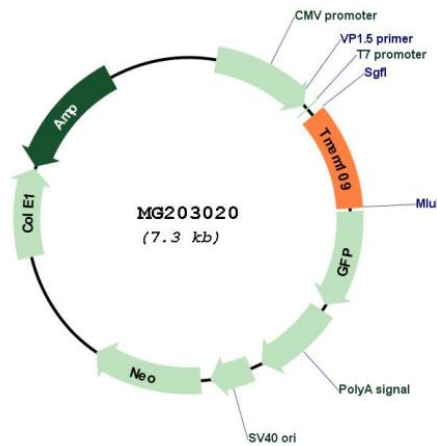
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_134142

ORF Size: 729 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:	<ol style="list-style-type: none">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
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]