

Product datasheet for **RR213233**

Tmem109 (NM_001007736) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tmem109 (NM_001007736) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Tmem109
Synonyms: MGC93811
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR213233 representing NM_001007736
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGGCGCACACAGCAATCCATCATGGAGCAGGCATCTGTCAAAGCTGTCCTAATGGTCTAGGGG
CCCTTCTCCTCGTCCACTCAGCATCAGCCAGACTCATCGAGAGTTTGCCTCACCTGGCCAACAGAAGAG
GGAGTCTCAGCTGATATTCTGACCGAGATTGGCCGATCTCTGAAGGAGACGTTGGATACCTGGCTGGGG
CCAGAGACCATGCATGTGATTTAGAGACCCTGCTGCAGGTGATGTGGGCCATCTCATCAGCCATCTCTG
TGGCCTGCTTTGCCCTGTCTGGGATTGCTGCCAGTTGCTGAGTGCCCTGGGGCTGGATGGTGAACAAC
CACCCAGGTCTTGAAGCTCAGCCCTAGCCAAGTCCAGACCCTTCTACTGTGGGGAGCAGCAGCACTGGTC
ATCTACTGGTTGCTGTCCTGCTCCTAGGCTTGGTCTTGGCCTTGGTACGGATCCTGGGGGGTCTGA
AGCTTGTCTCTTCGTGGCTGGCTTTGTGGCCTGGTGGAGTGGTGGCCGAGCCGACCCATCGACCCGGCCCT
GCTGCTCTTGGCCTTGTAACTGTCTTTGCCTTGTGAGTCGGCTCACCGCTCCAGGAGCTCGGGGACC
CACCTAGAAGCCAAGGTGAGAGGGCTGGAGCGCCAGATAGAAGAGCTTCGAGGGAGGCAGAGGCGAGCAG
CCAAGATACCCAGGAGCATGGAGGAAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR213233 representing NM_001007736
Red=Cloning site Green=Tags(s)

MAGAHSNPWSRHLFKAVLMVLGALLLVHSASAQTHREFASPGQKRESSADILTEIGRSLKETLDTWLG
 PETMHVISELLQVMWAISSAISVACFALSGIAAQLLSALGLDGEQLTQVLKLSPSQVQTLWWGAAALV
 IYWLLSLLGLVLALLGRILGGLKLVLFVAGFVGLVRSVPDPSTRALLLALLTVFALLSRLTGSRSSGT
 HLEAKVRGLERQIEELRGRQRAAKIPRSMEEE

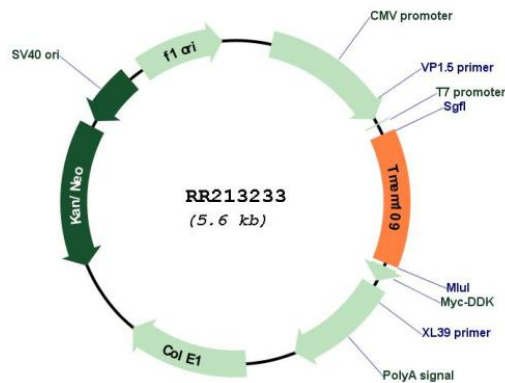
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001007736
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_001007736.1 , NP_001007737.1
RefSeq Size:	1924 bp
RefSeq ORF:	732 bp
Locus ID:	361732
UniProt ID:	Q6AYQ4
Cytogenetics:	1q43
MW:	26.2 kDa
Gene Summary:	May mediate cellular response to DNA damage by protecting against ultraviolet C-induced cell death. Can form voltage-gated calcium and potassium channels in vitro.[UniProtKB/Swiss-Prot Function]