

Product datasheet for **MR227686**

Tmem102 (NM_001033433) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem102 (NM_001033433) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmem102
Synonyms:	4632403M07Rik; Cbap; Tmem102-ps
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR227686 representing NM_001033433
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTTCCACCGTCTGGGGGGTGCCCCCTGGTGGGACCACCGCCCCAGCCCCAGCCCGCCCTCTCA
 CAGACATAGATTTCTGCTCGGGCGCCAGCTGCAGGAGCTCACTCAGTTAATTCAGGAGCTCCGTGTTC
 GGAGAGTTGGAGTGAAGGGCCCAAGCCTGGAGCTGATCTTCTCCGAGCCAAGATTTTGTCTTCGCTCTA
 CTCGGTCTGGTTCACCGCCAAGACCCTCGTTTTCCACCCAGGCAGAACTCTTGCTGCTTCGTGGTGGGA
 TTCGCGAAGGTTCCCTAGATTTAGGGCACGCCCTTAGGTCCCTACTCCGGGGACCTCATTATGATGC
 CGGCTTTACTACTCTGTGCCTGTGTTTTCTGATGGACTGGGCCGAGCTGCTACTGGATCTGGAA
 TCCTGTTCTGCATGGCTCCGCTTCCAGAACTGATGCGTGAATTTTGGTCCGGGAGGCCTGGCAGGATT
 GCTTAGGACCTCTGTCCAGAAGAAAGTATGACTACCAAAACCCATAGCAAAGAGAGTCCCACCGA
 CCGGAAAACCTGTAGATCCGTCACATGATTATGTCCTGAACCTGAGCCACACATGTCTTTGCAAAAA
 TCATCTAGTGACCTTTCAGAGTCCAATCGTCTTATAAGGACATTACCAATCCTGAAACTCTGAGCCAT
 TGGAAACTGAGCAGCGACGCCTTGGACGCCGACGAAAGCCAAGTCCAAAGCCGTCGGAGGCTCCAAA
 GGCATGGCCACATTATGCCCGACCAAGTAACTTCTGGTTCTTCGTTAAGTTGGCTGAGGTTGCTGAG
 TCCCTGATCCCGTCCCAGGCGCCCCACGGCTAGTTTATGCAGCTCGTACGCAGGTGTACCACGGTCC
 TCCTGGCAACTCCAGAGCCCCACGCCACCTCTGCTCTTCGACTTGATCCCGGTGGTACCCTGACAGG
 CTGGCTGACACGGCTCGAGCCACTCGTGGCGGGTCCACTGGTCTCTGAATCGGCCTCTTTCTACCTA
 GTGCCGGGACCTCCCAGAGCAGCCGAGCACCTCTGGATGGCAGCTGTGCTTCGCTCGCCAGGAGCTGG
 CGCTCAAAGAGCGCATCCCACGCGCTGCTTCAGGCACACGCGGCCAGGCCTGCTGCGCCGCT
 GGTGGCGGGGACCCGAGCCGCTGCGCCCTACCTCCTGCGGACCTTGCTCTACTGGCGTGCAGCGGCTC
 CCGCGCTCTACTTGGCGCGCCGAAAATGCCGCGCTTGTTCCTGGGCTACTGGATGAGCTGAGCC
 GAGTGCTAGAGGCGGGGCGCTGCCTCATTATTTTTTGGCGGCCGAAAGCTCCGTGTGGGAGCGGCTC
 CGCTGCTCTGCGCGGGGATTGGCCAGCTCCGCGGGGACCTGCACAGGCCTTGCCTGAGGCTGTAGAG
 GAAGCCAAGTTGCCCGCAAAGGGGGGTTAGCGGGCGTAGGGGGCGGGACCCAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227686 representing NM_001033433
 Red=Cloning site Green=Tags(s)

MASTVWGGAPWVGPPPPAPARPLTDIDFCSGAQLQELTQLIQELRVQESWSEGPKEGADLLRAKDFVFAL
 LGLVHRQDPRFPQAELELLLRGGIREGSLDLGHAPLGPYSRGPYDAGFTLLVPVFLDGTGPELELLDLE
 SCSAWLRPELMRGILVREAWQDCLGPPVPEESDMTHQTHSKESPDTRENSVDPVSHDYVPEPEPHMSLQK
 SSDLSESQSSYKIDITNPETPEPLETLSSDALDAESQVPKPSEAPKAWPTLCPTQVTSWFFVKLAEVAE
 SLIPVPGAPRLVHAARHAGVTTVLLATPEPPRHLLFDLIPVVTVTGWPDTARSHSWAGPLVSESASFYL
 VPGSLPEQPSTSGWQLCFARQELALKERIPTPLLQAHAAAQALLRPLVAGTRAAAPYLLRLLYWACERL
 PALYLARPENAGACCLGLLDEL SRVLEAGALPHYFLSGRKL RVGDGSAALRGALAQLRGDPAQALREAVE
 EAKVARKGGLAGVGGGTH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001033433

ORF Size: 1527 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_001033433.4](#), [NP_001028605.2](#)

RefSeq Size: 1941 bp

RefSeq ORF: 1530 bp

Locus ID: 380705

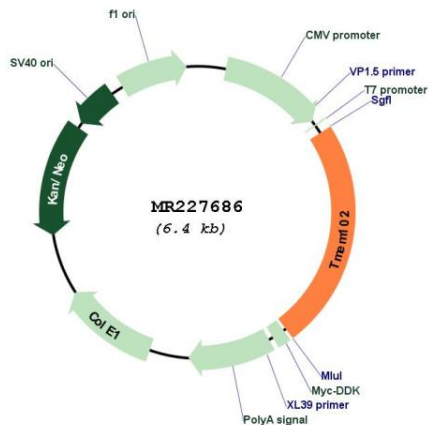
UniProt ID: [Q3UPR7](#)

Cytogenetics: 11 B3

MW: 54.9 kDa

Gene Summary: Selectively involved in CSF2 deprivation-induced apoptosis via a mitochondria-dependent pathway.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR227686