

Product datasheet for **MG227686**

Tmem102 (NM_001033433) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem102 (NM_001033433) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tmem102
Synonyms:	4632403M07Rik; Cbap; Tmem102-ps
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG227686 representing NM_001033433
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGCTTCCACCGTCTGGGGGGTGCCCCCTGGTGGGACCACCGCCCCAGCCCCAGCCCGGCCTCTCA
 CAGACATAGATTTCTGCTCGGGCGCCAGCTGCAGGAGCTCACTCAGTTAATTCAGGAGCTCCGTGTTCA
 GGAGAGTTGGAGTGAAGGGCCCAAGCCTGGAGCTGATCTTCTCCGAGCCAAGGATTTTGTCTTCGCTCTA
 CTCGGTCTGGTTCACCGCCAAGACCCTCGTTTTCCACCCAGGCAGAACTCTTGCTGCTTCGTGGTGGGA
 TTCGCGAAGGTTCCCTAGATTTAGGGCACGCCCTTAGGTCCCTACTCCGGGGACCTCATTATGATGC
 CGGCTTTACACTCCTTGTCCTGTGTTTTCTTGGATGGCACTGGGCCGAGCTGCTACTGGATCTGGAA
 TCCTGTTCTGCATGGCTCCGCTTCCAGAACTGATGCGTGGAATTTTGGTCCGGGAGGCCTGGCAGGATT
 GCTTAGGACCTCCTGTCCAGAAGAAAGTGATGACTCACCAAAACCATAGCAAAGAGAGTCCCACCGA
 CCGGAAAACTCTGTAGATCCGTACATGATTATGTCCCTGAACCTGAGCCACACATGTCTTTGCAAAAA
 TCATCTAGTGACCTTTCAGAGTCCCAATCGTCTTATAAGGACATTACCAATCCTGAAACTCTGAGCCAT
 TGGAAACTGAGCAGCGACGCCTTGGACGCCGACGAAAGCCAAGTCCCAAGCCGTGCGAGGCTCCAAA
 GGCATGGCCACATTATGCCCGACCCAAGTAACCTCTGGTTCTTCGTTAAGTTGGCTGAGGTTGCTGAG
 TCCCTGATCCCGGTCCCAGGCGCCCCACGGCTAGTTTCATGCAGCTCGTACGCAGGTGTCAACACGGTCC
 TCCTGGCAACTCCAGAGCCCCACGCCACCTCTGCTCTTCGACTTGATCCCGGTGGTGACCGTGACAGG
 CTGGCCTGACACGGCTCGGAGCCACTCGTGGGCGGGTCCACTGGTCTCTGAATCGGCCTCTTTCTACCTA
 GTGCCGGGCGAGCTCCCAGAGCAGCCGAGCACCTCTGGATGGCAGCTGTGCTTCGCTCGCCAGGAGCTGG
 CGCTCAAAGAGCGCATCCCCACGCCGCTGCTTCAGGCACACGCGCGGCCAGGCCTGCTGCGCCCGCT
 GGTGGCGGGGACCCGAGCGCTGCGCCCTACCTCCTGCGGACCTTGCTCTACTGGGCGTGCAGCGGCTC
 CCGGCGCTCTACTTGGCGCGGCCGAAAAATGCCGCGCTTGTTCCTTGGGCTACTGGATGAGCTGAGCC
 GAGTGCTAGAGGCGGGGCGCTGCCTCATTATTTTGGAGCGGCCGAAAGCTCCGTGTGGGAGACGGCTC
 CGCTGCTCTGCGCGGGGATTGGCCAGCTCCGCGGGGACCTGCACAGGCCTTGCCTGAGGCTGTAGAG
 GAAGCCAAGTTGCCCGCAAAGGGGGCGGTTAGCGGGCGTAGGGGGCGGGACCCAT

ACGCGTACGCGGCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

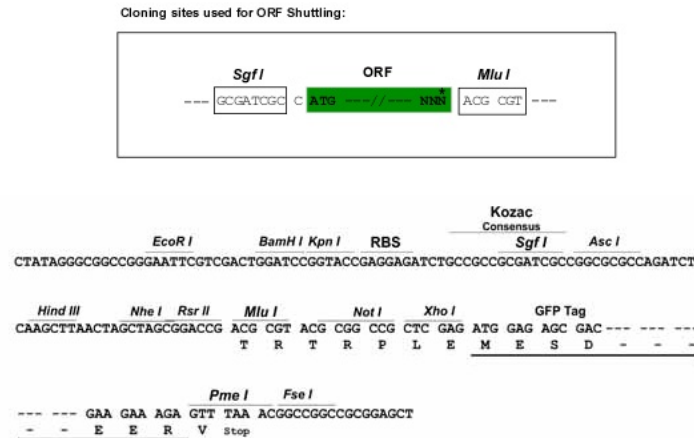
>MG227686 representing NM_001033433
 Red=Cloning site Green=Tags(s)

MASTVWGGAPWWGPPPPAPARPLTDIDFCGAQLQELTQLIQELRVQESWSEGPKEGADLLRAKDFVFAL
 LGLVHRQDPRFPPQAELLLLGGIREGSLDLGHAPLGPYSRGPYDAGFTLLVPVFLDGTGPELLLDLE
 SCSAWLRLELMRGILVREAWQDCLGPPVPEESDMTHQTHSKESPTDRENSVDPSHDYVPEPEPHMSLQK
 SSSDLSSESQSSYKDIINPETPEPLETLSSDALDADESQVPKPSEAPKAWPTLCPTQVTSWFFVKLAEVAE
 SLIPVPGAPRLVHAARHAGVTTVLLATPEPPRHLLFDLIPVVTVTGWPDTARSHSWAGPLVSESASFYL
 VPGSLPEQPSTSGWQLCFARQELALKERIPTPLLQAAAAQALLRPLVAGTRAAAPYLLRTLTYACERL
 PALYLARPENAGACCLGLLDELRSVLEAGALPHYFLSGRKL RVGDGSAALRGALAQLRGDP AQALREAVE
 EAKVARKGGGLAGVGGGTH

TRTRPLE – GFP Tag – V

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001033433.4](#), [NP_001028605.2](#)

RefSeq Size: 1941 bp

RefSeq ORF: 1530 bp

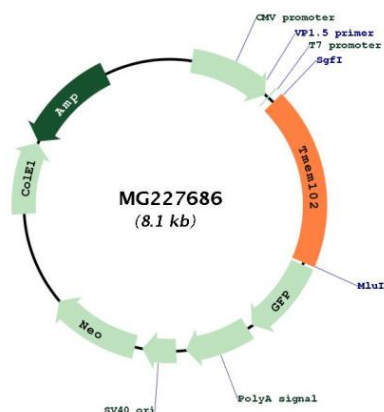
Locus ID: 380705

UniProt ID: Q3UPR7

Cytogenetics: 11 B3

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

Product images:



Circular map for MG227686