

Product datasheet for **RG208538**

TMEM102 (NM_178518) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM102 (NM_178518) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TMEM102
Synonyms:	CBAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208538 representing NM_178518
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTTCGCGAGTCTGGGGAGTGCCCCCTGGTGGGGCCGCGCCCGCCCGGCCAGCTCGGCCGCTCA
 CGGACATCGACTTCTGCTCCGGGGCGCAGCTGCAGGAATTGACCCAGCTGATCCAGGAGCTGGGTGTGCA
 GGAGAGCTGGAGTGACGGGCCAAAGCCGGGAGCCGATCTCCTCCGGGCCAAGGACTTTGTCTTCTTTG
 CTTGGTCTAGTTCACCGCCGGGACCCTCGCTTCTCCAGGCAGAGCTCTTGCTGCTTCGTGGTGGGA
 TTCGCGAGGGCTCCCTGGATCTGGGCATGACCCCTGGGTCCCTACGCCGGGGACCTCACTACGATGC
 CGGCTTCACTCCTAGTGCCCATGTTTTCACTGGACGGCACTGAACTGCAACTGGACCTGGAATCCTGT
 TACGCACAGGTCTGCCTCCAGAGATGGTGTGCGGAACCCCATCCGGGAGATGTGGCAGGATTGCTTAG
 GACCCCACTCCAGGAGCAGTGATTCGATCCACCGAACGGAGAGCGAAGAAAGTTCCAAGGACTGGCA
 AAGCTCTGTAGACCAGCCGACAGCTACGTCACTGAGCAGAGGGCCGGTGTCTTTGGAAAAATCGCT
 AGTGACGTTTACGCGTCCGAGTCGCTCAGCATGACGTGCTGACCTTGGCTCTACCGCACCTTTGAAAA
 CAATGAGTAGTGACGTACCAAGGCAGCCGTCGAAAGCCAGTCCCAAAGCCGTCGGAGGCTCGGGAAGC
 GTGGCCACATTAATGTTCCGCCAGGTGGCTGCCTGGTCTTTGCTACGCTGGCGCGGTGCGCCAGTCT
 CTGATCCCTGTCCCGGTGCTCCCGCTGGTGCACGCAGCTCGCCACCGGGTTTACCACCGTCTCC
 TGGTACCCCTGAGCCCCCTCGCCGCTCTGCTCTTCGACCTGATCCAGTGGTGTCCGTGGCGGGCTG
 GCCCGAGGGGCTCGGAGCCACTCGTGGCCGGTCCGCTGGCCTTGAGTCGGCTTCTTCTACCTGGTG
 CCCGTTGGCGCACCGGAGCGCCGTGCGCTCCGCTGGCAGCTCTGTTTTGCCCGCCAGGAGCTGGCGC
 TCAAAGCGCGCATACCAGCGCCGCTGCTGACGGCGCAGCGGGCCAGGCGCTACTGCGCCGCTGGT
 GGCCGGGACCCGGGCGGGCGCCCTACCTCCTGCGGACGCTGCTGTACTGGGCGTGCGAGCGGCTGCT
 GCGCTCTACCTGGCGCGCCAGAAAATGCGGGCGCTGCTGCCTCGGGTCTAGACGAGCTCGGCCGAG
 TGCTCGAGGCCGGGACGTTGCCTCACTATTTTCTGAACGGCCGACAGCTCCGTACGGGGGACGACTCCGC
 TGCGCTGCTCGGAGAATTGGCCCGCTCCGCGGGGACCCGGCCCGGGCCCTCCGTGCCGCGTGGAGGAG
 GCCAAAGTGGCCCGCAAGGGGGCGGTTTGGCGGGCGTGGGGGGCGGGGCCAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG208538 representing NM_178518
 Red=Cloning site Green=Tags(s)

MASAVWGSAPWWGPPPPAPARPLTDIDFCGAQLQELTQLIQELGVQESWSDGPKPGADLLRAKDFVFSL
 LGLVHRRDRFPFQAELLLLRRGIREGSLDLGHAPLGPYARGPHYDAGFTLLVPMFSLDGTTELQDLDESC
 YAQVCLPEMVCPTPIREMWQDCLGPPVPGARDSIHRTESEESSKDWQSSVDQPHSYVTEHEAPVSLEKSP
 SDVSASESPQHDVVDLSTAPLKTMSDVTKAAVESPVKPKSEAREAWPTLCSAQVAAWFFATLAAVAES
 LIPVPGAPRLVHAARHAGFTTVLLATPEPPRRLLFDLIPVVSVAGWPEGARSHSWAGPLASESASFYLV
 PGGGTERPCASAWQLCFARQELALKARIPAPLLQAHAAAQALLRPLVAGTRAAAPYLLRLLTYWACERLP
 ALYLARPENAGACCLGLLDELGRVLEAGTLPHYFLNGRQLRTGDDSAALLGELARLRGDPARALRAAVEE
 AKVARKGGGLAGVGGGAH

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_178518

ORF Size: 1524 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_178518.3](#)

RefSeq Size: 1996 bp

RefSeq ORF: 1527 bp

Locus ID: 284114

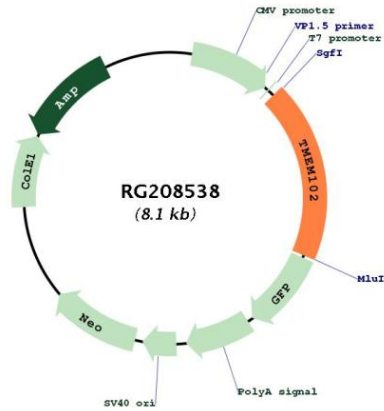
UniProt ID: [Q8N9M5](#)

Cytogenetics: 17p13.1

Gene Summary:

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

Product images:



Circular map for RG208538