

Product datasheet for **MG202654**

Tmem98 (NM_029537) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem98 (NM_029537) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tmem98
Synonyms:	6530411B15Rik; AI463522
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202654 representing NM_029537 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGACTGTGGTGATCGTCGCCATAGGTGTGCTGGCCACCATTTTCCTGGCCTCATTGCTGCTTTGG
TGGTGGTCTGTAGGCAGCGTTACTGCCGGCCTCGAGACCTACTACAGCGTTATGATTCCAAGCCCATCGT
GGACCTCATTGGTGCTATGGAGACGCAGTCTGAACCTCCGAGCTGGAGCTGGATGATGTCGTCATCACC
AACCCACATCGAGGCCATCCTGGAGAATGAGGACTGGATCGAAGATGCCTCGGGCCTCATGTCCCCT
GCATCGCCATCTTGAAGATTTGTACACTCTGACAGAAAACTCGTTGCCATGACAATGGGTTCTGGGGC
CAAGATGAAGACGTCAGCAAGTGTCAAGTGCAGTGCATCATTGTGGTGGCCAAACGGATTAGCCCCAGAGTGGAC
GACGTCGTGAAGTCAATGTACCCTCCACTGGACCCCAAGCTCCTGGATGCACGGACAACCCCTGCTGC
TGTCCGTAGTCACTTGGTGCTAGTGACCAGGAACGCCTGCCATCTAACCGGGGGCCTGGACTGGATTGA
CCAATCACTGTCTGCCGCTGAGGAGCACCTGGAAGTCTTCGAGAGGCAGCCCTGGCTTCTGAGCCAGAT
AAAAGCCTCCCAACCTGAGGGCTTCTGCAGGAACAGTCGGCCATT

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202654 representing NM_029537
 Red=Cloning site Green=Tags(s)

METVVIVAIGVLATIFLASFAALVVVCRQRYCRPRDLLQRYDSKPIVDLIGAMETQSEPSELEDDVVIT
 NPHIEAILENEDWIEDASGLMSHCIAILKICHTLTEKL VAMTMGSGAKMKTSASVSDIIVVAKRISPRVD
 DVVKSMYPPLDPKLLDARTTALLLSVSHLVLVTRNACHLTGGLDWIDQSL SAAEEHLEVLREAALASEPD
 KSLPNPEGFLQEQSAI

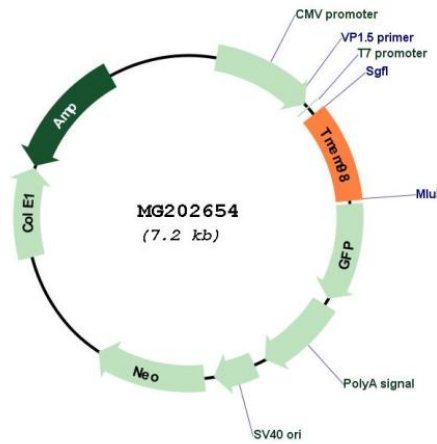
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_029537

ORF Size: 678 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_029537.2
RefSeq Size:	1444 bp
RefSeq ORF:	681 bp
Locus ID:	103743
UniProt ID:	Q91X86
Cytogenetics:	11 B5
Gene Summary:	Functions as a negative regulator of MYRF in oligodendrocyte differentiation and myelination. Interacts with the C-terminal of MYRF inhibiting MYRF self-cleavage and N-fragment nuclear translocation (PubMed:25946230). The secreted form promotes differentiation of T helper 1 cells (Th1) (PubMed:25946230).[UniProtKB/Swiss-Prot Function]