

Product datasheet for **MG202697**

Tmed4 (NM_134020) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tmed4 (NM_134020) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Tmed4
Synonyms: 1110014L17Rik; AI326346
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG202697 representing NM_134020
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCAGGTGTTGGGTCGGACCGCTGCAGGGATGGTGCATTGGGCTGCTGGTACTGTGTGTG
 CTGCGTGTGCCCGTGGGCTCTATTTCCACATCGGCAGACTGAGAAGCGCTGCTTCATCGAGAAATACC
 CGACGAGACCATGGTCATCGGCAACTATCGAACTCAGATGTGGGACAAACAGAAAGAGGTGTTCTGCCG
 TCGACCCCGGCCTGGGCATGCATGTAGAGGTGAAGACCCGGACGGCAAGGTTGACTGTCCCGGCAAT
 ACGGCTCCGAGGGCCGTTTCACGTTACATCCACACACCCGGTGACCATCAGATTTGTCTTCACTCCAA
 CTCCACCAGAATGGCTCTCTTCGCTGGAGCAAACCTGCGTGTACACTGGACATCCAGGTTGGAGAGCAT
 GCCAACAACTACCCGAGATCGCTGCTAAGGATAAGTTAACAGAGCTCCAGCTTCGAGCTCGCCAGTTGC
 TTGACCAGGTGGAACAGATCCAGAAGGAGCAGGATTATCAGAGGTATCGTGAAGAGCGCTTCCGTCTGAC
 CAGTGAGAGCACCAACCAGAGGGTCCTGTGGTGGTCCATCGCCAGACCGTTATCCTCATCTCACTGGC
 ATCTGGCAGATGCGTCACCTCAAGAGCTTCTTTGAGGCCAAGAAGCTGGT

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202697 representing NM_134020
 Red=Cloning site Green=Tags(s)

MAGVGVGPLQGMVRFGLLVLTVCAACARGLYFHIGETEKRCFIEEIPDETMVIGNYRTQMWDKQKEVFLP
 STPGLGMHVEVKDPDGKVVLSRQYVSEGRFTFTSHTPGDHQICLHSNSTRMALFAGGKLRVHLDIQVGEH
 ANNYPEIAAKDKLTELQLRARQLLDQVEIQKEQDYQRYREERFRLTSESTNQRVLWWSIAQTVILILTG
 IWQMRHLKSFFEAKKLV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_134020

ORF Size: 681 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_134020.1](#), [NP_598781.1](#)

RefSeq Size: 1645 bp

RefSeq ORF: 684 bp

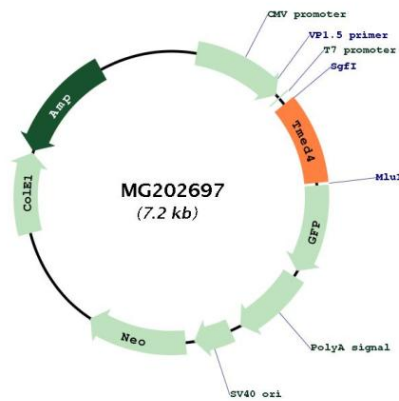
Locus ID: 103694

UniProt ID: [Q8R1V4](#)

Cytogenetics: 11 A1

Gene Summary: Involved in vesicular protein trafficking, mainly in the early secretory pathway. Involved in the maintenance of the Golgi apparatus. Appears to play a role in the biosynthesis of secreted cargo including processing. Involved in endoplasmic reticulum stress response. May play a role in the regulation of heat-shock response and apoptosis (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG202697