

Product datasheet for **MR202697**

Tmed4 (NM_134020) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tmed4 (NM_134020) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Tmed4
Synonyms: 1110014L17Rik; AI326346
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR202697 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGGTGTTGGGTCGGACCGCTGCAGGGATGGTGCATTGGGCTGCTGGTACTGTGTGTG
CTGCGTGTGCCCGTGGGCTCTATTTCCACATCGGCAGACTGAGAAGCGCTGCTTCATCGAGAAATACC
CGACGAGACCATGGTCATCGGCAACTATCGAACTCAGATGTGGGACAAACAGAAAGAGGTGTTCTGCCG
TCGACCCCGGCCTGGGCATGCATGTAGAGGTGAAGACCCGGACGGCAAGGTTGACTGTCCCGGCAAT
ACGGCTCCGAGGGCCGTTTCACGTTACATCCACACACCCGGTGACCATCAGATTTGTCTTCACTCCAA
CTCCACCAGAATGGCTCTTTCGCTGGAGCAAACCTGCGTGTACACTGGACATCCAGGTTGGAGAGCAT
GCCAACAACTACCCCGAGATCGCTGCTAAGGATAAGTTAACAGAGCTCCAGCTTCGAGCTCGCCAGTTGC
TTGACCAGGTGGAACAGATCCAGAAGGAGCAGGATTATCAGAGGTATCGTGAAGAGCGCTCCGCTGAC
CAGTGAGAGCACCAACCAGAGGGTCTGTGGTGGTCCATCGCCAGACCGTTATCCTCATCTCACTGGC
ATCTGGCAGATGCGTCACCTCAAGAGCTTCTTTGAGGCCAAGAAGCTGGT

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202697 protein sequence
 Red=Cloning site Green=Tags(s)

MAGVGVGPLQGMVRFGLLVLTVCAACARGLYFHIGETEKRCFIEEIPDETMVIGNYRTQMWDKQKEVFLP
 STPGLGMHVEVKDPDGKVVLSRQYGSEGRFTFTSHTPGDHQICLHSNSTRMALFAGGKLRVHLDIQVGEH
 ANNYPEIAAKDKLTELQLRARQLLDQVEIQKEQDYQRYREERFRLTSESTNQRVLWWSIAQTVILITG
 IWQMRHLKSFFEAKKLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_134020

ORF Size: 684 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

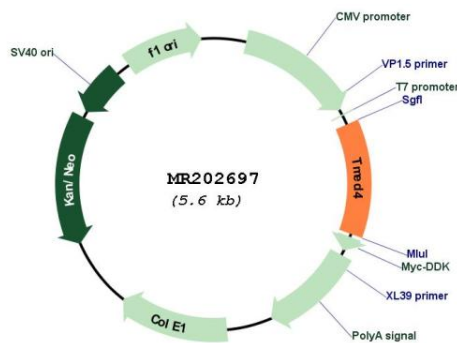
UniProt ID: [Q8R1V4](#)

Cytogenetics: 11 A1

MW: 26 kDa

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 MR202697