

Product datasheet for **MC204809**

Tmed2 (NM_019770) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmed2 (NM_019770) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tmed2
Synonyms:	1110032D12Rik; 1810020N21Rik; p24beta1; Rnp24; Sid394
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC083140
 GCTGAGGCGGCAGCGGTGGCGGGCTCCGGAGGCCGAGTCCGCGTCCCGGCGTCGGCCCGTCCCAC
 CATGGTGACGCTCGCCGAGCTGCTGGCGCTGCTGGCCGCGCTGCTGGCCACGGCCCGGGCTACTTTGTC
 AGCATCGACGCGCAGCCGAGGAGTGTCTTTCGAGCGGGTACCTCCGGCACCAGATGGGCTCATCT
 TCGAGGTGGCGGAGGGCGGCTTCTTGGACATCGACGTGGAGATCACAGGACCAGATAATAAAGGAATCTA
 TAAAGGAGACCGGAGTCCAGCGGAAGTACACATTTGCAGCCCACATGGATGGGACATACAAGTTCTGC
 TTTAGCAATAGGATGTCCACTATGACTCCAAAGATAGTAATGTTTCCATTGACATTGGGAGGCTCCCA
 AAGGACAAGACATGGAGACAGAAGCTCATCAGAACAAGCTAGAAGAAATGATTAATGAGCTGGCAGTGGC
 AATGACAGCCGTAAGCAGCAACAGGAGTACATGGAAGTCCGGGAGAGAATACACAGAGCCATCAATGAC
 AACACAAACAGCAGAGTGGTCTTTGGTCTTCTTCAAGCTCTTGTCTAGTTGCCATGACATTGGGAC
 AGATCTACTACCTGAAGAGATTTTTGAAGTCCGGAGGGTTGTTAAAAGGCCTTTTCTGTTGATCCCA
 AATTCATGATTTACTTGTTTACCAACACCTTGGTCATAATAATGTCATTAGTTTATACATTTTTATTTT
 CTGAACGTTTCATGACTTATGTTTCTTGTGATTAGTAGGTGTTGGGAAAACCTGTTAAGAGAGTTAGA
 GTGAAAATTTGACATTTGATTGGCCTATAATTCTTACTTGAAGGAGCCCATTATATAGCCCTCCAA
 GAATCCAGAGGCTGTTAATGCTGTATGGGACTATGGTCTTTATTATGTTTTTACCTTTGGTTTTTCATAAT
 AAAATGCAGTTTATCCAGGAAGTAGCCACAGCCTGACAATACTTGTAACTAAGTGCATTCTAGTAGTC
 CCTTGGTTCATCATCAGAGGCTCATTTTGTATTACAGCAACAGCAATCTGAATCTTGACCTGTGGCC
 CGCCTCAGGGTGGAGAGTCTGATGGGGCTGTTACCAGGGTGGGCACTCATGCTTCTCTTGAGCTCGA
 TTTAAAGACTCATCAAACTCTTCCCCTAAAGTTTTATATTGAACCTTAGAACTGAATCACCTCTAATT
 GAATTGAACAAGCAGCAATAAAGTCCGTTCTTTGAATCCAGTTTCCAGGTGTTGGAACAGACTGCT
 GTCCTGTGTGCTGAGAGTGTCCCTTGTGGCACTTAGGAAGTCCAGTTTCTCCCTCACTGGAAGTC
 TGCCTTCTCAAGCAGAAGGATTAAGCCTCTGGGGTTCAGTGCAGTATAGGCAGCCACTGATGTCTTTT
 TAGTCAGTGGCCTTTGGGCCCTGGTCTTTCAGTGCAGCACTAGGGTTTGTGTCCTCTGGGGTCTTTT
 TGGCAGTGTGAGTTTTGTTTATATAAAATGAAGAGACTGTCTCTGATGATGGGTTTAAATGAAAGGCA
 CTCTGCTTTGGGTGTGGCGGTCCAGGATTATGTGTAATATTGTCTGTAGTTACCTGGATTTTTAT
 TTTTCTTTTGGATCTTGAAGGGGAAAACACAAGTAACAAGTTTTATAAAATTTAAATTTAAATTTGTTAC
 AGGTTTTTCATGTTTCAAGCAAAATAATTTTTCAACCTTCGATGATATCCTTGCAGCAGTTTGTGTAAGG
 TGACTTTCACCTAGGGCAGCTGTGATGCCAATTTTTTTTTTTTGTGTGTGTGTGAAAAACATTCAG
 AATTGAATTTAAAGATGTAATTTAAATTTGGTTGTGTATCTAATATGCCAGGTTTCAGTAAATAAACAA
 TTCTTTTTAAAAACAA

Restriction Sites: RsrII-NotI

ACCN: NM_019770

Insert Size: 606 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [BC083140](#), [AAH83140](#)

RefSeq Size: 2029 bp

RefSeq ORF: 606 bp

Locus ID: 56334

UniProt ID: [Q9R0Q3](#)

Cytogenetics: 5 F

Gene Summary: Involved in vesicular protein trafficking. Mainly functions in the early secretory pathway but also in post-Golgi membranes. Thought to act as cargo receptor at the luminal side for incorporation of secretory cargo molecules into transport vesicles and to be involved in vesicle coat formation at the cytoplasmic side. In COPII vesicle-mediated anterograde transport involved in the transport of GPI-anchored proteins and proposed to act together with TMED10 as their cargo receptor; the function specifically implies SEC24C and SEC24D of the COPII vesicle coat and lipid raft-like microdomains of the ER. Recognizes GPI anchors structural remodeled in the ER by PGAP1 and MPPE1. In COPI vesicle-mediated retrograde transport inhibits the GTPase-activating activity of ARFGAP1 towards ARF1 thus preventing immature uncoating and allowing cargo selection to take place. Involved in trafficking of G protein-coupled receptors (GPCRs). Regulates F2RL1, OPRM1 and P2RY4 exocytic trafficking from the Golgi to the plasma membrane thus contributing to receptor resensitization. Facilitates CASR maturation and stabilization in the early secretory pathway and increases CASR plasma membrane targeting. Proposed to be involved in organization of intracellular membranes such as the maintenance of the Golgi apparatus. May also play a role in the biosynthesis of secreted cargo such as eventual processing (By similarity). Required for morphogenesis of embryo and placenta.[UniProtKB/Swiss-Prot Function]