

Product datasheet for **RR209153**

Tmed9 (NM_001009703) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tmed9 (NM_001009703) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Tmed9
Synonyms: RGD1307627
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR209153 representing NM_001009703
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCGGTGCGAGGCGTGCGAGTTGTCCGAACCTCACCTGGACTCTTCTGCTGGGAGAGGGATGCGGG
CCTTCCTGCTACTGCTGTGCCTTGACGCCGCGGAGGCGCGCTCTATTTCCACATAGGAGAGACAGAGAA
GAAGTGCTTCATTGAGGAGATCCGGACGAGACCATGGTCATCGGAAATTACCGACGCAGCTGTATGAC
AAACAGCGGGAGGAGTACCAGCCAGCCACTCCTGGGCTTGGTATGTTCTGTTGGAAGTAAAAGACCCCGAGG
ACAAGGTCACTTGGCCCGCAGTATGGCTCTGAGGGCAGGTTACATTACCTCCCACACCCCGGTGA
GCACCAGATCTGTCTTCACTCAAATTCTACCAAGTTCTCCCTCTTTGCTGGAGGGATGCTGAGAGTTCAC
CTTGACATCCAAGTGGGCGAACACGCGAACGACTATGCGGAAATCGCGGCCAAAGACAAGCTGAGTGAGC
TGCAGCTGAGAGTCCGACAGCTGGTGGAGCAGGTGGAGCAGATCCAAAAGGAGCAGAACTACCAGCGGTG
GCGAGAGGAGCGCTTCAGACAAACCAGCGAAAGCACCAACCAGCGAGTGTGTGGTGGTCCATCCTACAG
ACTCTCATCCTCGTGGCCATCGGCGTCTGGCAGATGCGGCACCTCAAGAGCTTTTTTGAAGCCAAGAAGT
TGGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR209153 representing NM_001009703
 Red=Cloning site Green=Tags(s)

MAAVRGVRVVGTSPLGLLLGRGMRAFLLLLCLAARGGALYFHIGETEKKCFIEEIPDETMVIGNYRTQLYD
 KQREEYQPATPGLGMFVEVKDPEDKIVLARQYSGEGRFTFTSHTPGEHQICLHSNSTKFSLFAGGMLRVH
 LDIQVGEHANDYAEIAAKDKLSELQLRVRQLVEQVEQIQKEQNYQRWREERFRQTSESTNQRVLWWSILQ
 TLILVAIGVWQMRHLKSFFEAKKLV

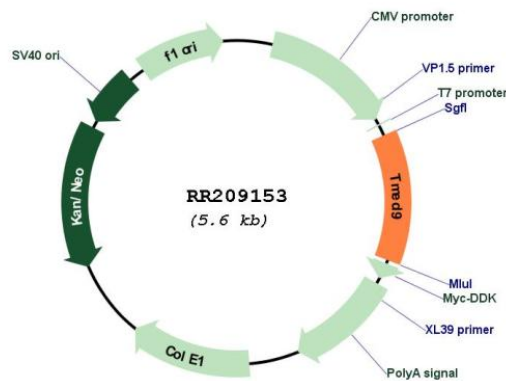
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001009703
ORF Size: 705 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_001009703.1 , NP_001009703.1
RefSeq Size:	1446 bp
RefSeq ORF:	708 bp
Locus ID:	361207
UniProt ID:	Q5I0E7
Cytogenetics:	17p14
MW:	27 kDa
Gene Summary:	Appears to be involved in vesicular protein trafficking, mainly in the early secretory pathway. In COPI vesicle-mediated retrograde transport involved in the coatamer recruitment to membranes of the early secretory pathway. Increases coatamer-dependent activity of ARFGAP2. Thought to play a crucial role in the specific retention of p24 complexes in cis-Golgi membranes; specifically contributes to the coupled localization of TMED2 and TMED10 in the cis-Golgi network. May be involved in organization of intracellular membranes, such as of the ER-Golgi intermediate compartment and the Golgi apparatus. Involved in ER localization of PTPN2 (By similarity).[UniProtKB/Swiss-Prot Function]