

Product datasheet for **MG202756**

Tmed5 (BC020076) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmed5 (BC020076) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tmed5
Synonyms:	3110020O18Rik; 4432412D15Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202756 representing BC020076 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGGCGGCAGGATGTGGCTGCCATTCCCGTGCTGCTCCTGTCCGCTCTGCCCGCAGCGTTGCTGCGCG
GGGCGGCCGGCTTCACACCCTCTTTGGACAGTGATTTTACCTTCACGCTGCCGGCCGGCCGAAGGAGTG
TTTCTACCAGCCCATGCCCTGAAGGCATCGTTGGAGATCGAATACCAAGTTTTAGATGGAGGAGAATTA
GATATTGATTTCCACCTTACCTCTCCAGAGGGCAGAACCTTAGTTTTGAACAAAGAAAATCAGATGGTG
TTCATACTATAGAGACTGAAGATGGTGATTACATGTTCTGCTTTGATAACACATTAGCACCATTCTGA
GAAGGTAAATTTCTTTGAATTGATCCTGGATAATATGGGAGAAGAGGTTCAAGGCCAAGAAGACTGGAAA
AAGTATATTACTAATACAGATGTCCTGGAGATGAAGCTAGAAGATATCCTGGAATCCATCAACAGCATCA
AGTCCAGACTAAGCAAAAGTGGCCACATACAACTCTACTTAGAGCATTTGAAGCTCGAGATCGAAACAT
ACAAGAAAGCAACTTTGACAGAGTCAATTTCTGGTCTGTGGTTAACTTGATGATCATGGTGGTGGTGTC
GCTATTCAAGTTTATACGCTGAAAAGTCTATTTGAAGATAAGAGGAAAAGTAGAACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >MG202756 representing BC020076
 Red=Cloning site Green=Tags(s)

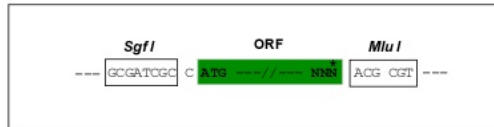
MGGRMWLPFPVLLL SALPAALLRGAAGFTPSLSDFTFTLPAGRKECFYQPMPLKASLEIEYQVLDGGEL
 DIDFHLTSPEGRTLVFEQRKSDGVHTIETEDGDYMFCDNTFSTISEKVIFFELILDNMGEEVQGQEDWK
 KYITNTDVLKLEIDILESINSIKSRLSKSGHIQTLRLRAFEARDRNIQESNFDVNFWSVNLMMVVVS
 AIQVYTLKSLFEDKRKSRT

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGCGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- --- GAA GAA AGA GTT TAA ACGGCGGCGCGGAGCT

- - E E R V Stop

PmeI FseI

ACCN: BC020076

ORF Size: 689 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: [BC020076](#), [AAH20076](#)

RefSeq Size: 1399 bp

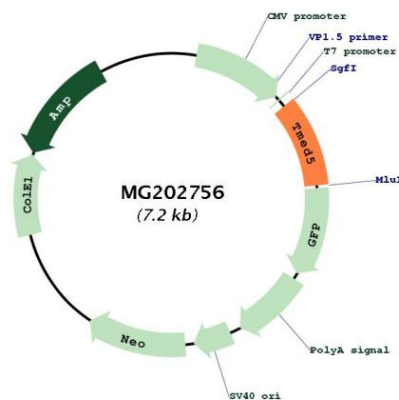
RefSeq ORF: 689 bp

Locus ID: 73130

Cytogenetics: 5 F

Gene Summary: Potential role in vesicular protein trafficking, mainly in the early secretory pathway. Required for the maintenance of the Golgi apparatus; involved in protein exchange between Golgi stacks during assembly. Probably not required for COPI-vesicle-mediated retrograde transport (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG202756