

Product datasheet for **MG202845**

Tmed9 (BC049282) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmed9 (BC049282) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tmed9
Synonyms:	2400003B06Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202845 representing BC049282 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCGGTGCGAGGCGTGCGGGTTGTCGGAAGCTCACCGGTCTCTTGCTGGGGAGAGGGATGCGGG
CCTTCCTGCTACTGCTGTGGCTTGACGCCCGGAAGCGCGTGTATTTCCACATCGGAGAAACAGAAAA
GAAGTGCTTCATTGAGGAGATCCGGACGAGACCATGGTCATCGGAAATTACCGGACGCAGCTGTATGAC
AAACAGCGGGAGGAGTACCAGCCAGCCACCCTGGCTTGGCATGTCGTAGAGGTAAGACCCCGAGG
ACAAGGCATCCTGGCCCGCAGTATGGCTCTGAGGGCAGTTACCTTCACCTCCACACCCTGGTGA
GCACCAGATCTGTCTTCACTCAAATCCACCAAGTTCTCCCTCTTGCCGGAGGGATGCTGAGGGTTCAC
CTTGACATCCAAGTGGCGAACATGCAAACGACTATGCAGAAATTGCTGCCAAGGACAAGCTGAGCGAGC
TGCAGCTGAGGGTGCGACAGCTGGTGGAGCAAGTGGAGCAGATCCAAAAGGAGCAGAACTACCAGCGGTG
GCGAGAAGAGCGCTTCAGACAAACCAGCGAAAGCACCAACCAGCGAGTGTATGGTGGTCCATCCTGCAG
ACTCTCATCCTCGTGGCCATTGGCGTCTGGCAGATGCGGCACCTCAAGAGCTTTTTTGAAGCCAAGAAGT
TGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202845 representing BC049282
 Red=Cloning site Green=Tags(s)

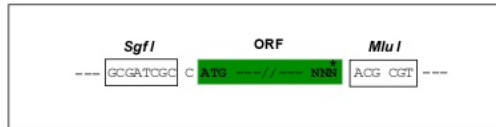
MAAVRGVRVVGSSPGLLLGRGMRAFLLLLWLAARGSAFYFHIGETEKKCFIEEIPDETMVIGNYRTQLYD
 KQREEYQPATPGLGMFVEVKDPEDKVLARQYGSEGRFTFTSHTPGEHQICLHSNSTKFSLFAGGMLRVH
 LDIQVGEHANDYAEIAAKDKLSELQLRVRQLVEQVEQIQEQNYQRWREERFRQTSESTNQRVLWWSILQ
 TLILVAIGVWQMRHLKSFFEAKKLV

TRTRPLE - GFP Tag - V

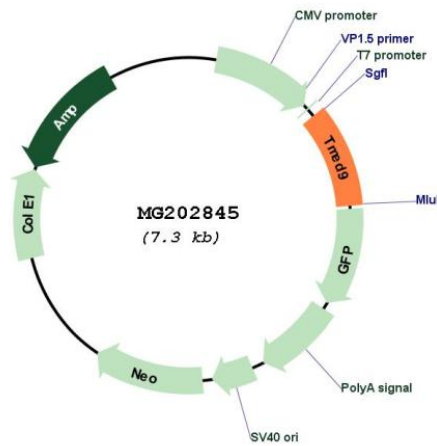
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: BC049282

ORF Size: 707 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:	BC049282 , AAH49282
RefSeq Size:	1411 bp
RefSeq ORF:	707 bp
Locus ID:	67511
Cytogenetics:	13 B1
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 coatomer recruitment to membranes of the early secretory pathway. Increases coatomer-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]