

## Product datasheet for **RG209754**

### TMED5 (NM\_016040) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TMED5 (NM\_016040) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** TMED5  
**Synonyms:** CGI-100; p24g2; p28  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG209754 representing NM\_016040  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGCGACAAGATCTGGCTGCCCTTCCCGTGCTCCTTCTGGCCGCTCTGCCTCCGGTGCTGCTGCCTG  
 GGGCGGCCGGCTCACACCTTCCCTCGATAGCGACTTCACCTTTACCCTTCCCGCCGCCAGAAGGAGTG  
 CTTCTACCAGCCCATGCCCTGAAGGCCTCGCTGGAGATCGAGTACCAAGTTTTAGATGGAGCAGGATTA  
 GATATTGATTTCCATCTGCCTCTCCAGAAGGCAAACCTTAGTTTTGAACAAAGAAAATCAGATGGAG  
 TTCACACTGTAGAGACTGAAGTTGGTATTACATGTTCTGCTTTGACAATACATTCAGCACCATTCTGA  
 GAAGGTGATTTCTTTGAATTAATCCTGGATAATATGGGAGAACAGGCACAAGAACAAGAAGATTGGAAG  
 AAATATATTACTGGCACAGATATATTGGATATGAAACTGGAAGACATCCTGGAATCCATCAACAGCATCA  
 AGTCCAGACTAAGCAAAAGTGGGCACATACAAATCTGCTTAGAGCATTGAAGCTCGTGATCGAAACAT  
 ACAAGAAAGCAACTTTGATAGAGTCAATTTCTGGTCTATGGTTAATTTAGTGGTCATGGTGGTGTCA  
 GCCATTCAAGTTTATATGCTGAAGAGTCTGTTTGAAGATAAGAGGAAAAGTAGAACT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG209754 representing NM\_016040  
 Red=Cloning site Green=Tags(s)

MGDKIWLPPVLLLLAALPPVLLPGAAGFTPSLSDFTFTLPAQQKECFYQPMPLKASLEIEYQVLDGAGL  
 DIDFHLASPEGKTLVFEQRKSDGVHTVETEVDYMFCDNTFSTISEKVIFFELILDNMGEQAQEEDWK  
 KYITGTDILDMKLEDILESINSIKSRLSKSGHIQILLRAFEARDRNIQESNFDRVNFWSMVNLLVMMVVVS  
 AIQVYMLKSLFEDKRKRSRT

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_016040

**ORF Size:** 687 bp

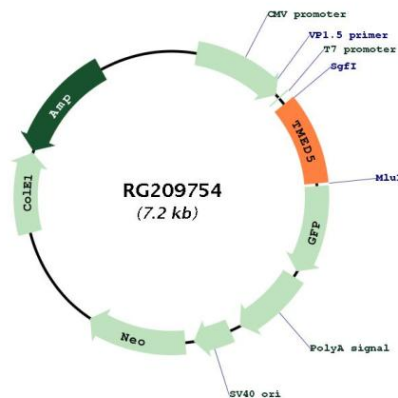
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_016040.3</a> , <a href="#">NP_057124.2</a>
<b>RefSeq Size:</b>	3969 bp
<b>RefSeq ORF:</b>	690 bp
<b>Locus ID:</b>	50999
<b>UniProt ID:</b>	<a href="#">Q9Y3A6</a>
<b>Cytogenetics:</b>	1p22.1
<b>Domains:</b>	EMP24_GP25L
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	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.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RG209754