

## Product datasheet for **RG236309**

### TMED4 (NM\_001303059) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TMED4 (NM\_001303059) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** TMED4  
**Synonyms:** ERS25; GMP25iso; HNFL; p24a3; p24alpha3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG236309 representing NM\_001303059.  
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCAGGTGTCGGGGCTGGGCCTCTGCGGGCGATGGGGCGCAGGCCCTGCTGCTTCTCGCGCTGTGC
GCCACAGGCGCCAGGGGCTCTACTTCCACATCGGCGAGACCGAGAAGCGCTGTTTCATCGAGGAAATC
CCCACGAGACCATGGTCATCGGCAACTATCGTACCCAGATGTGGGATAAGCAGAAGGAGGTCTTCTG
CCCTCGACCCCTGGCCTGGGCATGCACGTGGAAGTGAAGGACCCCGACGCAAGGTGGTGTCTCCCG
CAGTACGGCTCGGAGGGCCGCTTACGTTACCTCCCACACGCCCGGTGACCATCAAATCTGTCTGCAC
TCCAATTCTACCAGGATGGCTCTTTCGCTGGTGGCAAACGTATCGTGAAGAGCGCTTCCGACTGACG
AGCGAGAGACCAACCAGAGGGTCTATGGTGGTCCATTGCTCAGACTGTATCCTCATCTCACTGCGC
ATCTGGCAGATGCGTCACCTCAAGAGCTCTTTGAGGCCAAGAAGCTGGTG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG236309  
Blue=ORF Red=Cloning site Green=Tag(s)

```
MAGVGAGPLRAMGRQALLLLALCATGAQGLYFHIGETEKRCFIEEIPDETMVIGNYRTQMWDKQKEVFL
PSTPPLGMHVEVKDPDGKVVLSRQYGSEGRFTFTSHTPGDHQICLHNSNTRMALFAGGKLYREERFLT
SESTNQRVLWWSIAQTVILILGTGIWQMRHLKSFPEAKKLV
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLVHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLSRDGGYSSVVDSDHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

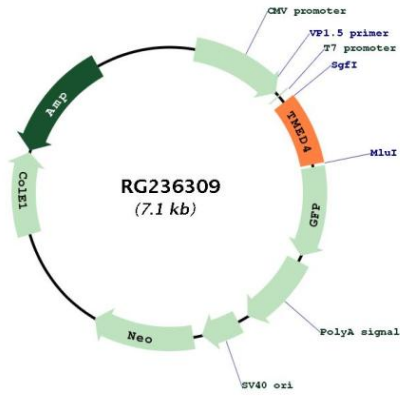
**Restriction Sites:** Sgfl-MluI



**Cloning Scheme:**


- ACCN:** NM\_001303059
- ORF Size:** 534 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).
- RefSeq:** [NM\\_001303059.2](#)
- RefSeq Size:** 2226 bp
- RefSeq ORF:** 537 bp
- Locus ID:** 222068
- Cytogenetics:** 7p13
- Protein Families:** Transmembrane
- MW:** 20.6 kDa
- Gene Summary:** Involved in vesicular protein trafficking, mainly in the early secretory pathway. targeting. Involved in the maintenance of the Golgi apparatus. Appears to play a role in the biosynthesis of secreted cargo including processing. Involved in endoplasmic reticulum stress response. May play a role in the regulation of heat-shock response and apoptosis (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG236309