

Product datasheet for **RG236228**

TMED4 (NM_001303061) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TMED4 (NM_001303061) 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: >RG236228 representing NM_001303061.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTGGGATAAGCAGAAGGAGGTCTTCCTGCCCTCGACCCTGGCCTGGGCATGCACGTGGAAGTGAAG
GACCCCGACGGCAAGGTGGTGTCTCCCGCAGTACGGCTCGGAGGGCCGCTTACGTTACCTCCCAC
ACGCCCGGTGACCATCAAATCTGTCTGCACTCAAATTCTACCAGGATGGCTCTTTCGCTGGTGGCAA
CTGCGGGTGCATCTGCATCCAGGTGGGGAGCATGCCAACACTACCCTGAGATTGCTGCAAAAGAT
AAGCTGACGGAGTACAGCTCCGCGCCCGCAGTTGCTTGATCAGGTGGAACAGATTGAGAGGAGCAG
GATTACCAAAGGTATCGTGAAGAGCGCTCCGACTGACGAGCAGAGACCAACCAGAGGGTCCTATGG
TGGTCCATTGCTCAGACTGTCATCCTCATCCTCACTGGCATCTGGCAGATGCGTCACCTCAAGAGCTTC
TTTGAGGCCAAGAAGCTGGTG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

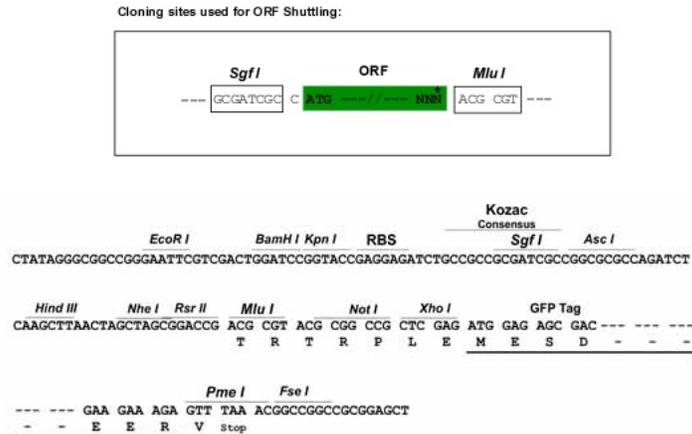
Protein Sequence: >Peptide sequence encoded by RG236228
Blue=ORF Red=Cloning site Green=Tag(s)

```
MWDKQKEVFLPSTPGLGMHVEVKDPDGKVVLSRQYVSEGRFTFTSHTPGDHQICLHNSNSTRMALFAGGK
LRVHLDIQVGEHANNYPEIAAKDKLTELQLRARQLLDQVEIQKEQDYQRYREERFLTSESTNQRVLW
WSIAQTVILILGTIWQMRHLKSFEEAKLV
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLVHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSDHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI

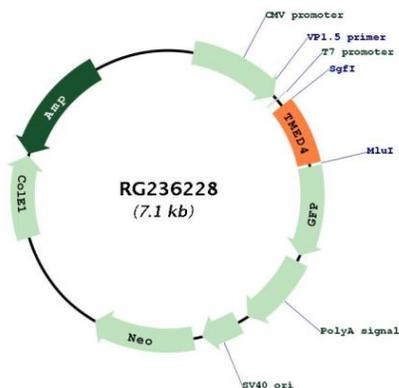


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Cloning Scheme:


- ACCN:** NM_001303061
- ORF Size:** 504 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_001303061.2](#)
- RefSeq Size:** 2366 bp
- RefSeq ORF:** 507 bp
- Locus ID:** 222068
- Cytogenetics:** 7p13
- Protein Families:** Transmembrane
- MW:** 20 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 RG236228