

Product datasheet for **RC236394**

TMED4 (NM_001303058) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TMED4 (NM_001303058) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: TMED4
Synonyms: ERS25; GMP25iso; HNFL; p24a3; p24alpha3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236394 representing NM_001303058
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGGTGTCGGGGCTGGGCCTTGC GGCGCATGGGGCGGCAGGCCCTGCTGCTTCTCGCGCTGTGGC
CCACAGGCGCCCAGGGGCTCTACTTCCACATCGGCGAGACCGAGAAGCGCTGTTTCATCGAGGAAATCCC
CGACGAGACCATGGTCATCGGCAACTATCGTACCCAGATGTGGGATAAGCAGAAGGAGGTCTTCCTGCC
TCGACCCCTGGCCTGGGCATGCACGTGGAAGTGAAGGACCCCGACGGCAAGGTGGTGTCTCCCGGCACT
ACGGCTCGGAGGGCCGCTTACGTTACCTCCACACGCCCGGTGACCATCAAATCTGTCTGCACTCCAA
TTCTACCAGGATGGCTCTCTTCGCTGGTGGCAAAGTGCAGGATCTCGACATCCAGGTTGGGGAGCAT
GCCAACAACTACCTGAGATTGCTGCAAAAGATAAGCTGACGGAGCTACAGCTCCGCGCCCGCAGTTGC
TTGATCAGGTGGAACAGATTGAGAAGGAGCAGGATTACCAAAGGGCAAGTGCATATCTCCTTGTAAAT

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236394 representing NM_001303058
Red=Cloning site Green=Tags(s)

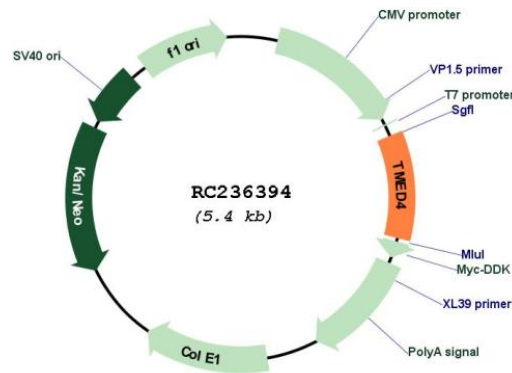
MAGVGAGPLRAMGRQALLLLALCATGAQGLYFHIGETEKRCFIEEIPDETMVIGNYRTQMWDKQKEVFLP
STPGLGMHVEVKDPDGKVVLSRQYGSEGRFTFTSHTPGDHQICLHSNSTRMALFAGGKLRVHLDIQVGEH
ANNYPEIAAKDKLTELQLRARQLLDQVEIQKEQDYQRASAYLLVI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:

Plasmid Map:


ACCN: NM_001303058

ORF Size: 558 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:	<u>NM_001303058.1</u> , <u>NP_001289987.1</u>
RefSeq Size:	1837 bp
RefSeq ORF:	561 bp
Locus ID:	222068
UniProt ID:	<u>Q7Z7H5</u>
Cytogenetics:	7p13
Protein Families:	Transmembrane
MW:	21.2 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]