

Product datasheet for **RC236228**

TMED4 (NM_001303061) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TMED4 (NM_001303061) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: TMED4
Synonyms: ERS25; GMP25iso; HNFLF; p24a3; p24alpha3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236228 representing NM_001303061
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTGGGATAAGCAGAAGGAGGTCTTCCTGCCCTCGACCCCTGGCCTGGGCATGCACGTGGAAGTGAAGG
 ACCCCGACGGCAAGGTGGTGTGTCCCAGCAGTACGGCTCGGAGGGCCGCTTACGTTACACCTCCCACAC
 GCCCGGTGACCATCAAATCTGTCTGCACCTCAATTCTACCAGGATGGCTCTCTTCGCTGGTGGCAAAGT
 CGGGTGCATCTCGACATCCAGGTTGGGGAGCATGCCAACAACTACCCTGAGATTGCTGCAAAGATAAGC
 TGACGGAGCTACAGCTCCGCGCCCGCCAGTTGCTTATCAGGTGGAACAGATTGAGAAGGAGCAGGATTA
 CCAAAGGTATCGTGAAGAGCGCTTCCGACTGACGAGCGAGAGCACCAACCAGAGGGTCTATGGTGGTCC
 ATTGCTCAGACTGCATCCTCATCTCACTGGCATCTGGCAGATGCGTCACCTCAAGAGCTTCTTTGAGG
 CCAAGAAGCTGGTG

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236228 representing NM_001303061
 Red=Cloning site Green=Tags(s)

MWDKQKEVFLPSTPGLGMHVEVKDPDGKVVLSRQYSEGRFTFTSHTPGDHQICLHSNSTRMALFAGGKL
 RVHLDIQVGEHANNYPEIAAKDKLTELQLRARQLLDQVEQIQKEQDYQRYREERFRLTSESTNQRLVWWS
 IAQTVILILTGIWQMRHLKSFEEAKLV

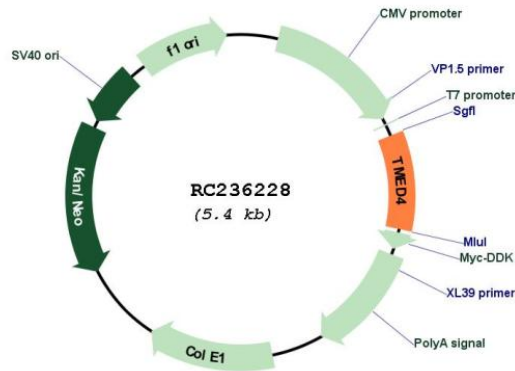
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


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).
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_001303061.2</u>
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]