

Product datasheet for **RC229667**

TMED5 (NM_001167830) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	TMED5
Synonyms:	CGI-100; p24g2; p28
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC229667 representing NM_001167830
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCGACAAGATCTGGCTGCCCTTCCCCGTGCTCCTTCTGGCCGCTCTGCCTCCGGTGCTGCTGCCTG
GGGCGGCCGGCTTTCACACCTTCCCTCGATAGCGACTTCACCTTTACCTTCCCGCCGCCAGAAGGAGTG
CTTCTACGAGCCATGCCCTGAAGGCCTCGCTGGAGATCGAGTACCAAGTTTATAGATGGAGCAGGATTA
GATATTGATTTCCATCTTGCCTCTCCAGAAGGCAAAACCTTAGTTTTGAACAAAGAAAATCAGATGGAG
TTCACACTGTAGAGACTGAAGTTGGTGATTACATGTTCTGCTTTGACAATACATTACGACCATTTCTGA
GAAGGTGATTTTCTTGAATTAATCCTGGATAATATGGGAGAACAGGCACAAGAACAAGAAGATTGGAAG
AAATATATTACTGGCACAGATATATTGGATATGAACTGGAAGACATCCTGGACCTATTATAAAATAG
CTTCAGATGTGCAATAAGACTGCATCTTGAATCCATCAACAGCATCAAGTCCAGACTAAGCAAAAGTG
GGCACATACAACTCTGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC229667 representing NM_001167830
Red=Cloning site Green=Tags(s)

MGDKIWLPPFVLLAALPPVLLPGAAGFTPSLDSDFTFPLPAGQKECFYQPMPLKASLEIEYQVLDGAGL
DIDFHLASPEGKTLVFEQRKSDGVHTVETEVGDYMFCDNTFSTISEKVIFELILDNMGEQAQEEDWK
KYITGTDILDMKLEDILDPIIKIASDVQIRLHLGIHQHQVQTKQKWAHTNSA

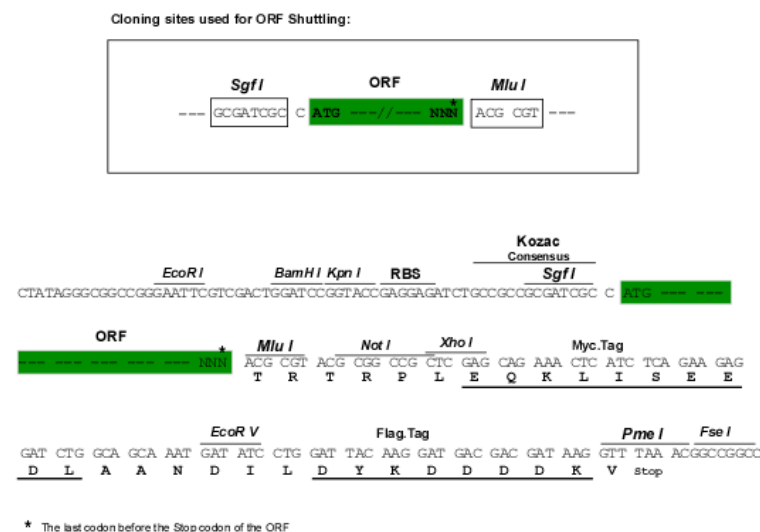
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV



Chromatograms: https://cdn.origene.com/chromatograms/ja1451_h12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM 001167830

ORF Size: 579 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.

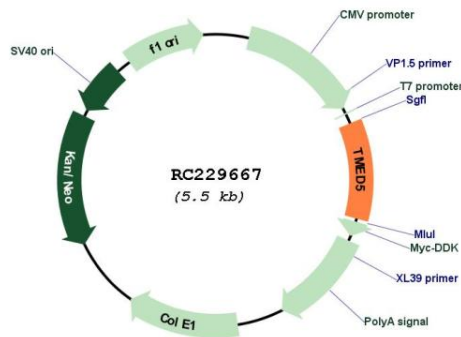
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

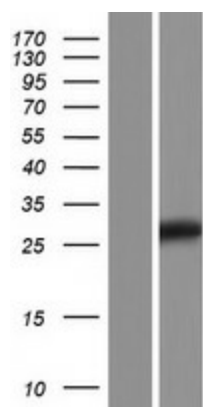
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001167830.2
RefSeq ORF:	582 bp
Locus ID:	50999
UniProt ID:	Q9Y3A6
Cytogenetics:	1p22.1
Protein Families:	Transmembrane
MW:	22.2 kDa
Gene Summary:	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 RC229667



Western blot validation of overexpression lysate (Cat# [LY432667]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229667 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).