

Product datasheet for **RC224266**

TMTC3 (NM_181783) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	TMTC3
Synonyms:	LIS8; SMILE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC224266 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCTAATATTAACTAAAAGAAATAACCTTAATAGTAGGTGTGGTTACTGCCTGCTATTGGAACAGCC
 TCTTTTGTGGTTTTGTTTTGATGATGTTTCAGCAATACTGGATAACAAAGACTTGCATCCATCTACACC
 TTTAAAACTTTATTTCAAATGACTTCTGGGGAACCCCTATGCTCTGAGGAGAGAAGCCACAAGTCTTAC
 CGTCCCTTAACAGTATTGACATTTTCGCTTAAATATTTGTTAAGTGAACATAACCAATGTCATATCATC
 TCCTGAATATGATTTTTCATGCTGTGGTTAGTGTGATTTTCTCAAAGTATGCAAACTTTTTCTGGACAA
 CAAGAGTAGTGTGATTGCTTCTTTACTTTTTGCAGTGCACCAATACACACAGAAGCAGTAACAGGAGTT
 GTTGAAGAGCAGAACTTTTGCATCTATCTTTTTCTAGCAGCTTTTTGTGCATATACCAGATCAAAAG
 GACCAGACAATTCCATAATATGGACTCCAATTGCCTTGACAGTGTTTTAGTGGCTGTTGCAACATTATG
 TAAAGAACAGGAATAACAGTTGTAGGAATTTGCTGTGTGTATGAAGTGTATTGCCAGGGGTATACT
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 TCAATCCCAACTTCCAGTATTCACCAAGTTTGATAACCCAGCTGCTGAAGCCCACTCTACAAGGCAA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC224266 protein sequence
Red=Cloning site Green=Tags(s)

MANINLKEITLIVGVVACYWNSLFCGFVDDVSAILDNDKLDHPSTPLKTLFQNDWFGTPTMSEERSHKSY
RPLTVLTFRLNYLLSELKPMYSYHLLNMIHAVVSVIFLKVCKLFLDNKSSVIALLLFAVHPITHEAVTGV
VGRAELSSIFFLAAFLSYTRSKGPDNSIIWTPIALTVFLVAVATLCKEQGITVVGICCVYEVFIAQGY
LPLLCTTAGQFLRGKGSIPFSMLQTLVKLIVLMFSTLLLVIRVQVIQSQLPVFTFRFDNPAAVSPTPTRQ
LTFNYLLPVNAWLLNPSELCCDWTMGTIPLIESLLDIRNLATFTFFCFLGMLGVFSIRYSGDSSKTVLM
ALCHMALPFIIPASNLFFPVGVVNAKLVVYPSMGFCILVAGHWQIKSTSVFKKSWICLSMVLTHSLK
TFHRNDWESEYTLFMSALPKVNNKRLWNNVGHALNEKHFERRALKYFLQATHVQDDIAGHMNVGRTY
KNLNRTKEAEESYMAKSLMPQIIPGKKYAARIAPHNLNVYINLANLIRANESRLEEADQLYRQAISMRP
DFKQAYISRGELLKMNKPLKAKEYLKAELDRNNADLWYNLAIVHIELKEPNEALKNFNRAELNPKH
KLALFNSAIVMQESGEVKLRPEARKRLSYINEEPLDANGYFNLGMLAMDKKDNEAEIWMKKAIKLQAD
FRSALFNLALLYSQAKELKALPILEELRYPDPHIGKILKGDILMNQKKTDLGAKKCFERILEMDPSN
VQGKHNLVVVYFEEDLLKAERCLLETALAPHEEYIQRHLNIVRDKISSSSFIEPIFTSKISSVEGKK
IPTESVKEIRGESRQTIQVKTSDNKSQSKSNKQLGKNGDEETPHKTTKDIKEIEKKRVAAALKRLEEIERI
LNGE

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Chromatograms:

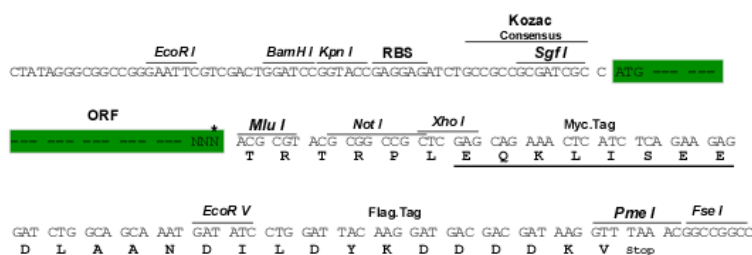
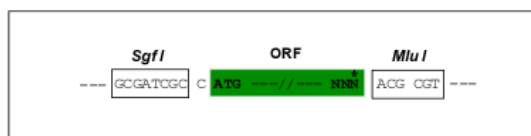
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Restriction Sites:

Sgfl-MluI

Cloning Scheme:

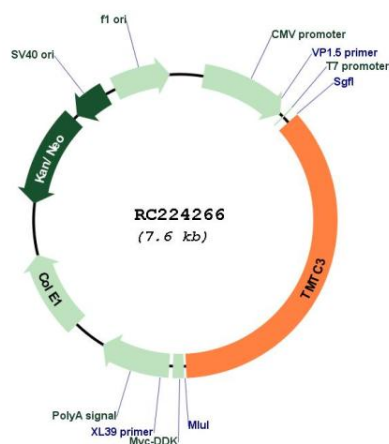
Cloning sites used for ORF Shuttling:



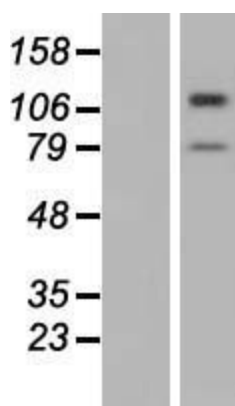
* The last codon before the Stop codon of the ORF

ACCN:	NM_181783
ORF Size:	2742 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_181783.4
RefSeq Size:	7203 bp
RefSeq ORF:	2745 bp
Locus ID:	160418
UniProt ID:	Q6ZXV5
Cytogenetics:	12q21.32
Protein Families:	Transmembrane
MW:	103.9 kDa
Gene Summary:	This gene encodes a protein that belongs to the transmembrane and tetratricopeptide repeat-containing protein family. [provided by RefSeq, May 2010]

Product images:



Circular map for RC224266



Western blot validation of overexpression lysate (Cat# [LY405614]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224266 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).