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Product datasheet for RC208155

TMTC1 (NM_175861) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	TMTC1
Synonyms:	ARG99; OLF; TMTC1A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC208155 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACCCATTCTACTTTCATGCAGTAAATATAATTTTACACTGCTTAGTGACTCTTGTGCTGATGTACA
CCTGTGATAAAACTGTCTTCAAGAATCGTGGACTTGCTTTTGTAACGGCATTGCTTTTTGCTGTACATCC
TATTCATACTGAGGCGGTGGCTGGGATCGTTGGCAGAGCGGACGTGTTAGCGTGTCTGCTGTTTCTATTG
GCCTTTCTCTCGTACAACAGGAGTCTGGATCAGGGCTGTGTTGGGGGAAGTTTCCCTTCCACGGTGTCTC
CCTTCTTCTTGCTGCTCAGTTTGTTTCTGGGGACCTGTGCGATGCTGGTGAAAGAGACAGGCATCACGGT
GTTTGGAGTGTGCTTGGTTTATGACCTCTTTTCCCTTTCCAACAAGCAAGACAAGTCGAGCAATGGGGCC
CTCTGTCCACGCAGCCCACAGCAGCCCGGGAGCCCCCAGCCCTCCTCACTGCCAGGCCATCCTCACCGGG
AGAATGGGAAGCAGCAGCGGTTCCCTCACAAAGGAGCTTGGGGTGGCTGCCACTCTCCACTGCCACCAGA
ACCCAAGAGCAGTGGATTCCCAGTGTCCCCACGAGCTGTGTGGTCCATGATGAGATTCCTCACCTATTCC
TACCTCTTGGCCTTCAATGTGTGGCTTCTGCTTGCACCCGTGACCCTGTGCTATGACTGGCAGGTCGGCA
GTATTCCTCTGGTAGAGACCATATGGGACATGCGGAACTTAGCCACCATCTTTCTGGCGGTTGTGATGGC
CTTATTGAGCCTGCACTGCTTAGCAGCCTTTAAGAGACTGGAGCACAAGGAGGTTTTAGTCGGCTTGTTG
TTCCTGGTGTTCCCGTTCATTCCAGCCAGCAACCTCTTCTTCAGGGTGGGTTTTGTGGTGGCGGAGAGAG
TCCTTTACATGCCTAGCATGGGCTACTGCATCCTTTTTGTGCACGGACTGAGCAAGCTCTGCACTTGGCT
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ATGCCAAGGTTCACTACAACTATGCCAATTTCCTGAAGGACCAAGGTCGGAACAAGGAAGCGATCTACCA
CTACAGAACAGCTCTCAAGTTGTATCCACGCCATGCAAGTGCGCTCAACAACCTTGGAACACTGACGAGA
GACACAGCAGAGGCAAAGATGTACTATCAGAGGGCTCTCCAGCTCCATCCACAGCATAACCGGGCTCTTT
TCAATCTGGGGAATCTCCTCAAGTCCCAGGAGAAAAAGGAAGAAGCTATCACCTTACTGAAGGATTCCAT
CAAATATGGTCCAGAGTTTGCAGATGCATATTCAAGCTTAGCTTCGTTATTGGCTGAGCAGGAGCGGTTT
AAAGAAGCTGAAGAAATATACCAAACTGGAATAAAGAACTGTCCAGACAGCTCAGATTTACACAACAACT
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TGTATTACAACACTGGCCGATACGAAGAGGCTTTGCAGATTTACCAGGAAGCTGCAGCACTTCAGCCTTC
TCAGAGGGAGCTCCGCTTGGCACTGGCTCAGGTTTTGGCCGTGATGGGTCAGACAAAAGAAGCTGAAAAG
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GCAAGCAGGAGAACCACGACAAGGCACTTGATGCTATAGACAAGGCTCTCCAGCTGAAACCAAAGGACCC
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TCCAACACATCAAGGGAAAATATGTGTCTGCAAGAGCTTATTATGAGAGAGCCTTACAGCTGGTTCCAGA
CAGCAAACTGCTGAAGGAAAATCTTGCCAAATTGGATCGCCTAGAAAAACGATTACAAGAAGTTCGAGAA
AAGGATCAAACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208155 protein sequence
Red=Cloning site Green=Tags(s)

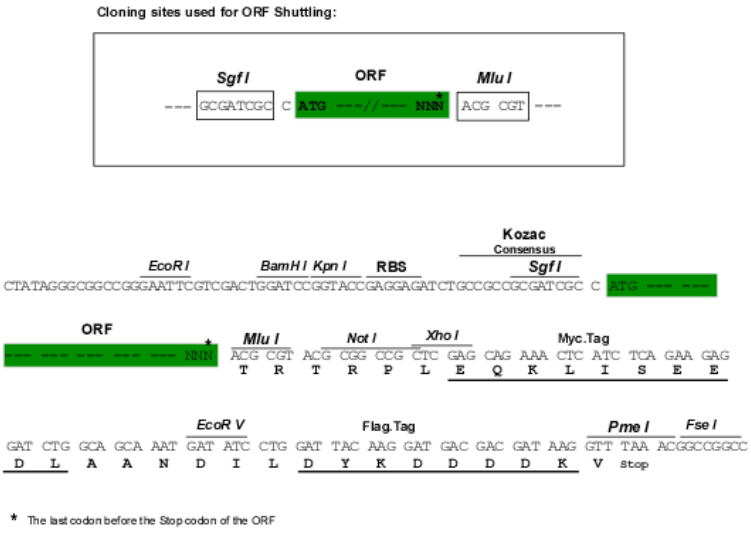
MNPFYFHAVNIILHCLVTLVLMYTCDKTVFKNRGLAFVTALLFAVHPIHTEAVAGIVGRADVLACLLFLL
AFLSYNRSLDQGCVGGSFPSTVSPFFLLLSLFLGTCAMLVKETGITVFGVCLVYDLFSLSNKQDKSSNGA
LCPRSPQQPGSPQPSSLPGHPHRENGKQQRFPHKGAWGGCHSPLPPEPKSSGFPVSPRAVWSMMRFLTYS
YLLAFNVWLLLAPVTLCYDWQVGSIPLVETIWDMRNLATIFLAVVMALLSLHCLAAFKRLEHKEVLVGLL
FLVFPFIPASNLFFRVGFVVAERVLYMPSMGYCILFVHGLSKLCTWLNRCGATTLIVSTVLLLLLFSWKT
VKQNEIWLSRESLFRSGVQTLPHNAKVHYNYANFLKDQGRNKEAIYHYRTALKLYPRHASALNNLGTLTR
DTAEAKMYYQRALQLHPQHNRALFNLGNLLKSQEKKEEAITLLKDSIKYGPEFADAYSSLASLLAEQERF
KEAEEIYQTGIKNCPDSSDLHNNYGVFLVDTGLPEKAVAHYQQAIKLSPSHHVAMVNLGRLYRSLGENSM
AEEWYKRALQVAHKAEILSPLGALYYNTGRYEEALQIYQEAAALQPSQRELRLALAQVLAVMGQTKEAEK
MTNHIVSEETGCLECYRLLSAIYSKQENHDKALDAIDKALQLKPKDPKVISELFFTKGNQLREQNLLDKA
FESYRLAVQLNPDQAQAWMNMGGIQHIKGKYVSARAYYERALQLVPDSKLLKENLAKLDRLEKRLQEVRE
KDQT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6202_f08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_175861

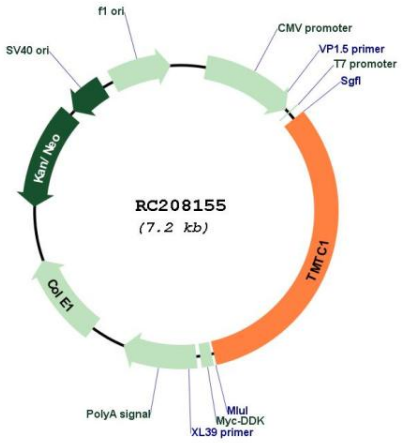
ORF Size: 2322 bp

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

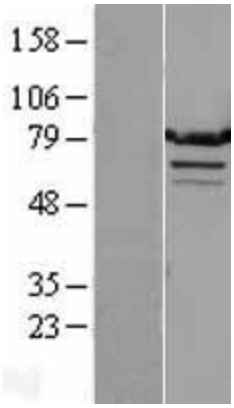
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_175861.1
RefSeq Size:	8841 bp
RefSeq ORF:	2325 bp
Locus ID:	83857
UniProt ID:	Q8IUR5
Cytogenetics:	12p11.22
Protein Families:	Transmembrane
MW:	87.4 kDa
Gene Summary:	Transfers mannosyl residues to the hydroxyl group of serine or threonine residues. The 4 members of the TMTC family are O-mannosyl-transferases dedicated primarily to the cadherin superfamily, each member seems to have a distinct role in decorating the cadherin domains with O-linked mannose glycans at specific regions. Also acts as O-mannosyl-transferase on other proteins such as PDIA3.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC208155



Western blot validation of overexpression lysate (Cat# [LY403582]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208155 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).