

Product datasheet for **MR208391**

Tmtc4 (BC031368) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmtc4 (BC031368) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmtc4
Synonyms:	4930403J22Rik; 5730419O14Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208391 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGCTGTGCAAGAGCAAGGAATCACTGTGCTGGGCTTGAATGCTGTGTTGATATCCTGGTGATAGGCA
 AACTCGACATTCTGGCAGCTGTCCGGAAGTCTACATAAGGACAAGTCACAAGAGAATGCAGGCATGTT
 CAAGAATGGAGGCCTCCTTTCCGAATAGCCCTGCTTACCATTGGAGGCACCAGCATGCTTTATATACGG
 TGGAAATCATGGGAACAGGCCACCGGCATTTACTGAGGTGGACAACCCAGCATCCTTTGCTGACAGCA
 TGTGTTGTTAGGGCCATAAATAATTACTACTATTTCATTGAATGCCTGGCTGCTGCTGTGCTCCCTGGT
 GCTGTGTTTTGATTGGTCAATGGGCTGCATCCCCCTCATTAGTCAGTTGGTGACTGGAGGGTAATTGCT
 CTAGCGGCACCTTTGGCTCTGCCTAATTGGCCTAATTTCCAAGCCCTGTGCTCTGAGGATAGCTGCAAGA
 GAAGAATCCTTACTCTGGGTTTGGGATTTCTTGATCCCCTTTCTTCTGCAAGCAACTGTTTTTCCG
 AGTGGGCTTTGTTGTCGACAGACGTGTCTCTACCTTCCAGCGCTGGGTACTGCGTGCTGCTGACCTTT
 GGATTTGGAGCTCTGAGCAGACACACTAAGAAAAAGAACTGTTGCCGCCATCATCCTGGGCATCCTTC
 TCATCAATGCACTGAGATGTGTGATACGAGTGGTGAGTGGCGGAGTGAAGAGCAGCTCTTTGAAAGCGC
 CCTGTCTGTGTGCTCCCTCAATGCTAAGGTTCACTACAACATTGGCAAAACCTGGCTGATCAAGGCAAC
 CAAACAGCGGCCATCAAAATTACCGGAAGCAGTCAGACTAAATCCCAAGTACGTTTCATGCCATGAATA
 ACCTCGGGAATATCTTAAAGAAAGGAATGAGCTACAGGAAGCTGAAGAGCTGCTGTGCTGGCTGTCCA
 AATACAGCCAGACTTTGCAGCCGCATGGATGAATTTGGGCATAGTTCAGAACAGCCTGAAACGGTTTGAG
 GAAGCAGAGCAGAGCTACCGGACAGCGATTAAACACAGGAGGAAATACCCAGACTGCTACTACAACCTCG
 GGCGGCTGTATGCAGATCTAAATCGCCACGTGGATGCATTGAACGCTTGGAGAAATGCCACCGTACTGAA
 GCCGGAGCACAGCCTGGCGTGGAACAACATGATCATACTTCTGGATAACACAGGTAACCTTAGCCAGGCT
 GAAGCTGTTGGAAGAGAGGCCCTGCAATTAATACCTAATGATCACTCCCTTATGTTCTCATTGGCAACG
 TGCTGGGGAATCCCAGAAATACAAGGAGTCTGAAGCTTTATTCCTCAAGGCAATTAAGCAAAATCCAAA
 TGTTGCAAGTTACCATGGTAATTTGGCTGTGCTTTATCATCGCTGGGACATCTTGACTCTGCCAAGAAA
 CACTATGAGATCTCCTTGACGCTTGACCCTGTGGCAGTAGGCACCAAGGAGAATTACAGTCTTCTGAGAA
 GAAAGCTAGAACAAACGCAGAGAAGAAAGATGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208391 protein sequence
 Red=Cloning site Green=Tags(s)

MLCKEQGITVLGLNAVFDILVIGKLDILA AVRKVLHKDKSQENAGMFKNGLLFRIALLTIGGTSMLYIR
 WKIMGTGPPAFTEVDNPASFADSM LVRAINYNYYSLNAWLLCPWWLCFDWSMGCIPLIKSVGDWRVIA
 LAALWLCIIGLIFQALCSEDSCKRRILTLGLFLVIPFLPASNLFFRVGFVVAERVLPLPSAGYCVLLTF
 GFGALSRHTKKKPVAAIILGILLINALRCVIRSGEWRSEEQLFRSALSVCPNNAKVHYNIGKNLADQGN
 QTA AIKYREAVRLNP KYVHAMNNLGNILKERNELQEA ELLSLAVQIQPDFAAAWMNLGIVQNSLKRFE
 EAEQSYRTAIK HRRKYPDCYYNLGRLYADLNRHVDALNAWRNATVLKPEHSLAWNMIILLDNTGNLAQA
 EAVGREALQLIPNDHSLMFSANVLGKSQKYKESEALFLKAIKANPNVASYHGNAVL YHRWGHLD SAKK
 HYEISLQLDPVAVGTKENYSLLRRKLEQTQKKDV

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: BC031368

ORF Size: 1572 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: [BC031368](#), [AAH31368](#)

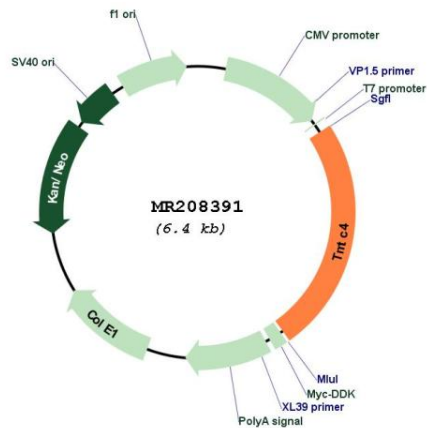
RefSeq Size: 2824 bp

RefSeq ORF: 1574 bp

Locus ID: 70551

Cytogenetics:	14 E5
MW:	59.1 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 MR208391