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Product datasheet for MC220209

Tmtc3 (NM_001033332) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmtc3 (NM_001033332) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tmtc3
Synonyms:	9130014E20Rik; B130008E12Rik; mSmile
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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Fully Sequenced ORF:

>MC220209 representing NM_001033332
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTTGAAGGGAAGATGGCTGATATTAACTTCAAAGAAGTGACTTTAATAGTCAGCGTGGTTGCCGCCT
GCTACTGGAACAGCCTGTTCTGTGGGTTTGTTTTTGATGATGTTTCAGCAATATTGGATAATAAAGACCT
GCATCCATCTACACCTTTAAAAACTTTATTTCAGAATGACTTCTGGGGAACTCCTATGTCTGAGGAGAGA
AGCCACAAGTCATACAGGCCCTTAACGGTGTTGACATTTCGCTTAAATTATCTCCTCAGTGAGCTGAAAC
CCATGTCTTACCACCTCCTGAACACAGTGTTCCACGCTGTCGTCAGCGTGATCTTCCTTAAGGTCTGCAG
ACTCTTTCTGGATAAGAGGAGCAGCATGATTGCGGCTCTGCTCTTCGCAGTGCACCCAATCCATACCGAG
GCAGTCACAGGTGTTGTAGGAAGAGCGGAACTCTTATCATCTGTCTTTTTCCTAGCTGCCTTTCTCTCGT
ATACTAAGTCAAAAGGACCAGATAATTCCATAGTGTGGACCCCGATTGTATTAACCGTGTTTTTAGTGGC
TGTTGCAACATTGTGTAAGGAACAAGGAATAACGGTTGTCGGAATTTGTTGTGTATATGAAGTATTTGTG
GCCCAAGGGTACACCTTGCCGATGTTATGCACCGTTGCCGGGCAGTTTCTGCGCGGGAAGGGCAGCATTC
CGTTATCTATGCTGCAGACACTGGTGAAGCTCATTGTCCTGATGCTCAGTACCTTGCTACTCGTTGTGGT
CAGAGTCCAAGTTATTCAGTCACAACTTCCAGTGTTTACCAGGTTTGATAATCCAGCTGCTGTAAGCCCA
ACCCCGACACGACAGCTGACTTTTAACTATCTCCTTCCTGTGAATGCCTGGCTTCTGCTGAATCCTTCGG
AGCTCTGCTGTGATTGGACCATGGGGACAATACCACTGATAGAATCATTTCTAGATGTTCGAAATCTCGC
CACTTTTGCTTTCTTTTGCTTTCTGGGGGCTTTGGGAATATTCAGTCTCAGATACCCTGGTGACTCCTCA
AAGACTGTCCTAATGGCGCTTTGTTTAATGGCGTTACCATTTATTCCCGCATCAAACCTGTTCTTTCCTG
TTGGATTTGTGGTTGCTGAGCGAGTACTATATGTTCCTAGCATGGGGTTCTGTATTTTAGTAGCCCATGG
ATGGCAAAAAATTTCAAACAAAAGTGTGCTGAAAAAGCTCTCGTGGGTTTGTCTGTCCATGGTGATACTA
ACCCATGCCTTGAAAACACTTCATAGAAATTGGGACTGGGAGTCAGAATATACATTGTTTATGTCAGCCC
TAAAGGTGAATAAAAACAATGCCAAATTATGGAATAATGTGGGTCATGCTCTGGAGAATGAGAAGAACTT
TGAGAAAGCTTTGAAATACTTCTTGCAGGCTACCCATGTTCAGCCAGATGACATCGGTGCCCACATGAAT
GTAGGAAGAACTTATAAAAACTTAAACAGAACTAGAGAAGCTGAAGCGTCTTACATGCTGGCTAAATCAC
TGATGCCTCAGATTATCCCTGGTAAAAAATATGCAGCCAGAATTGCCCCTAATCACCTAAACGTTTATAT
CAATCTGGCCAACCTTATTCGAGCAAATGAGTCCCGCCTGGAGGAAGCGGACCAGCTGTACCGACAGGCC
ATCAGCATGAGGCCAGACTTCAAACAGGCTTACATTAGCAGGGGAGAGTTGCTTTTAAAAATGAATAAGC
CTCTCAAAGCAAAGGAAGCATATCTTAAAGCACTAGAGCTGGACAGAAATAATGCAGATCTCTGGTACAA
CTTGGCAATTGTTTATATTGAACTTAAAGAACCAAATGAAGCTCTGAAGAACTTTAATCGAGCTTTGGAA
CTGAACCCTAAACATAAGCTAGCACTGTTCAATTCTGCTATTTTAATGCAGGAATCAGGTAAGTTTCCTG
AAAATGTCTCTATTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001033332

Insert Size: 1977 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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.
RefSeq:	NM_001033332.2, NP_001028504.1
RefSeq Size:	2788 bp
RefSeq ORF:	1977 bp
Locus ID:	237500
UniProt ID:	Q8BRH0
Cytogenetics:	10 D1
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. Involved in the positive regulation of proteasomal protein degradation in the endoplasmic reticulum (ER), and the control of ER stress response.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) uses an alternate splice site in the 3' coding region, creating a novel segment containing a premature stop codon when compared to variant 1. This results in a shorter protein (isoform 2) with a distinct C-terminus, compared to isoform 1.