

## Product datasheet for **MC216153**

### Tespa1 (NM\_183264) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tespa1 (NM_183264) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tespa1
Synonyms:	5830405N20Rik; A430001F24Rik; AI450549
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC216153 representing NM\_183264  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGCATCGGTACTGAGCCCCACATCTGGGAGAAACGAAGGCCTGTTACGACAGAGTCGTAAC  
 GGCAAACCCAGGTCCTGGAAGAGGAAGCAGCAGCTCTCAGGATGCACTGGATCCCGAGCCTTCTAG  
 CCTGGATGATGTTTTCCAGGAAGGAATCCAATCAATAAGATTGAGGACTGGCTGCAAGGCTGTGGTTGT  
 AGAGACTGAAGAGGGCCTTTCTGAAGAATCAGGGCAATCTAACTACAGTGGATATTCTAGCCATGGGA  
 CAAGCTTTGAAGATGACTTGAGTCTGGAGCAGAGGCCACATTACTGTCTACCAATGGAAACCTTCTC  
 TAGGAATTCCTCCAGACACCCAGGCTTTGCCAGTTACTTGATCTGGCTCTAGTTGGCTTCCAGCAGC  
 ATGACTGGTGGAAACAAAACAGTTCAAGCATCTCAGAGATTCTGGACCAGGTACAAGAAGATGCAG  
 AAGATATTCTTTTCAGCCTGGGCTTCGGGCACGAGAACCACAAAGACACATCTCGTATCCCTGCAAGATT  
 TTTTCAGCAACCTTCTCAGGCCAAGGGCATTAACTTTTCAGCTCTTCTGAAGTCTCAGGTGCAAAGGATG  
 GAGATGGAGGATCCCTGCCTGATGCTGGCCAGCCGGTTAAGCAGGTGCAGACGCTGGCTGTCACTGCTG  
 ATGCTTTCTTCTGTCTACTCCTATGTGTCTAAGACACCTGTCCAAAAGTTCACACCATCCAACATGTT  
 CTGGAATTTTCAGCCAACGGATGTGCCATCCATCAGGATTCTGGCTCCAGAGCCTGAACCCCTACTCACCC  
 AGAGAAGTCTCAGGAGAGCAATCTCAAAAATGTGCCTGTATACAGGTTCCCGAGATCGGCTATCATCAT  
 CTTACAACAACCCCAAAAAGAAGCAGTTTGGATCAAATTGTGTGGGAAGTATGGACAGAGTGAAGGAGA  
 GAAGATCCAGCAAGACCTGAGCATAGGCAAGCCCTTGGGAAGAGTCTGTTCCCAATACAAAATACA  
 AATCCATCTACTTCTCCCTTCCATGTGTTTCTACCTAAAGAAGAAACACAGGGAGACATGTGCCATG  
 CTCATGCTCTAGCAAGACCAGGTCACAGTACCACATAAACTCTACACAGGTAAGGAGACAGCTGTGGGT  
 TCTACAGGACATTAATGAGAAGCCAGTTCAGCTGAGAATGAGAGTCCATGGGAAAGAAAAGCAAAGCA  
 AGAAAAGAACTGTTTCAAGGGTTCCTGTGGACAAGAATATTAAGTCATTGAACTTGCCACCATCCAGC  
 AGAAAACAAAACAGGGACAAGCCAGACATGAGCTGACCAATCTT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_183264

**Insert Size:** 1377 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\\_183264.4](#), [NP\\_899087.2](#)

RefSeq Size: 1694 bp

RefSeq ORF: 1377 bp

Locus ID: 67596

UniProt ID: [Q3U132](#)

Cytogenetics: 10 D3

**Gene Summary:** May play a role in the regulation of inositol 1,4,5-trisphosphate receptor-mediated Ca(2+) release and mitochondrial Ca(2+) uptake via the mitochondria-associated endoplasmic reticulum membrane (MAM) compartment (By similarity). Required for the development and maturation of T-cells, its function being essential for the late stages of thymocyte development. Plays a role in T-cell antigen receptor (TCR)-mediated activation of the ERK and NFAT signaling pathways, possibly by serving as a scaffolding protein that promotes the assembly of the LAT signalosome in thymocytes.[UniProtKB/Swiss-Prot Function]