

## Product datasheet for MR223199

### Tomm22 (NM\_172609) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tomm22 (NM\_172609) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Tomm22  
**Synonyms:** 2310047D01; Tom22  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR223199 representing NM\_172609  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCGCCCGCTCGCTGCAGCCGGCGTGGGGAGCCTCTGTCCCCGAGGAATTACTCCCGAAAGCCG  
AGGCAGAGAAAGCCGAGGAGGAGCTGGAAGAAGACGACGACGAGCTAGACGAGACCCGTGCGGAGAG  
ACTCTGGGTCTGACGGAGATGTTCCCGAGAGGGTCCGGTCAGCCGCCGAGCCACCTTTGACCTCTCG  
CTCTTCGTGGCTCAGAAGATGTACAGATTTCCAGGGCAGCTTTGTGGATTGGACCACTCCTTCATGA  
TCCTGGTTCTTCCGTTGTCTTTGAGACAGAAAAGTTCAGATGGAGCAACAGCAGCAACTGCAGCAACG  
GCAGATACTTTTAGGGCCTAACACAGGGGTGTCAGGAGGAATGCCAGGGGCTCTACCTCCACTTCTGGA  
AAGATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR223199 representing NM\_172609  
Red=Cloning site Green=Tags(s)  
MAAAVAAAGAGEPLSPEELLPKAEAEKAELEEEDDDDELDETLSERLWGLTEMPERVRSAAAGATFDLS  
LFVAQKMYRFSRAALWIGTTSFMILVLPVVFETEKLMQEQQLQQRQILLGPNTGLSGGMGPALPLPG  
KM

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

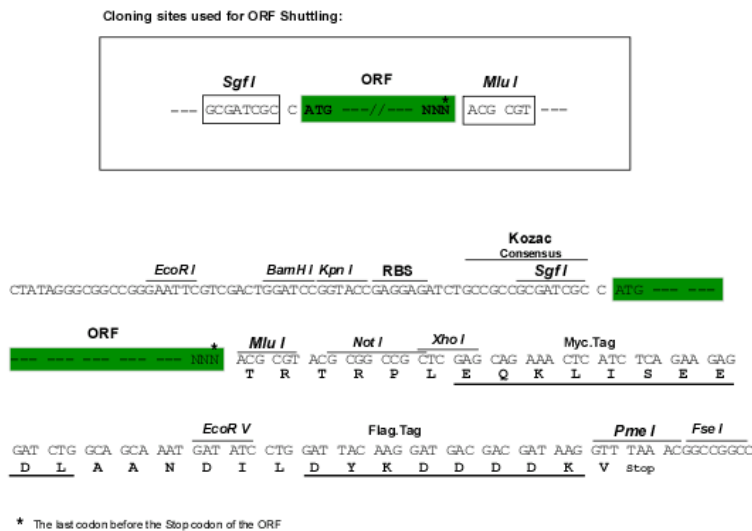
**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9030\\_b06.zip](https://cdn.origene.com/chromatograms/mm9030_b06.zip)



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**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_172609

**ORF Size:** 426 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.

**RefSeq:** [NM\\_172609.3](#), [NP\\_766197.2](#)

**RefSeq Size:** 1024 bp

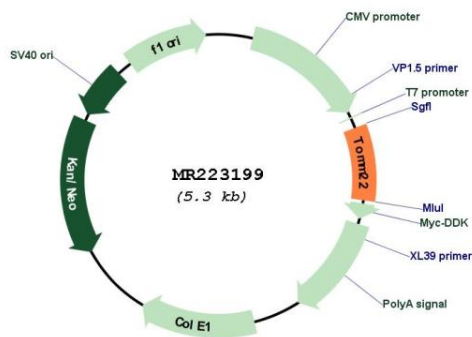
**RefSeq ORF:** 429 bp

**Locus ID:** 223696

UniProt ID: Q9CPQ3  
 Cytogenetics: 15 E1  
 MW: 16 kDa

**Gene Summary:** Central receptor component of the translocase of the outer membrane of mitochondria (TOM complex) responsible for the recognition and translocation of cytosolically synthesized mitochondrial preproteins. Together with the peripheral receptor TOM20 functions as the transit peptide receptor and facilitates the movement of preproteins into the translocation pore (By similarity). Required for the translocation across the mitochondrial outer membrane of cytochrome P450 monooxygenases (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR223199