

## Product datasheet for MR224111

### Tomm40 (NM\_016871) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tomm40 (NM_016871) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tomm40
Synonyms:	AW539759; Mom35; Tom40
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR224111 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGGGAACGTGTTGGCTGCCAGCTCTCCGCCCGAGGGCCACCGCCGCCTCTACGCCGTCCTCGTGG  
GGCTCCC GCCCGCCCTCCTTCGCCGCCAGGCTTCACTCTGCCGCCGCTCGGCCGGCGCCTGGGCACTGG  
GTCAAGCACTGGCCGTGGTTCGGAACGGACTCCCGGGGCTGCGGCCAGCGGCGCTGCGGCCGCTCGGAA  
GATGGGAGCTGCGGATGCCTGCCAACC CGGGGACGTTTCGAGGAGTGCCACCGGAAGTCAAGGAGCTGT  
TTCCAGTTCAGATGGAAGGTGTCAAACCTACAGTCAACAAAGGGTTGAGCAACCGTTTCCAGGTGACCCA  
CACAGTAGCCCTCGGCACAATTGGGGAGTCCAACCTACCCTTTGGGGTCACATACGTGGGGACGAAGCAG  
CTGAGTCCCACAGAGGCGTTCGCCGTGCTGGTGGGTGACATGGACAATAGTGGCAGCCTCAATGCACAGG  
TCATCCACCAGCTGAGCCAGGCGCTCAGGTCCAAAATGGCCATCCAGACCCAGCAGTCCAAGTTCGTGAA  
CTGGCAGGTGGATGGCGAGTACCGTGGTTCTGACTTCACAGCTGTCTCACCCCTGGGCAACCCAGATGTC  
TTGGTGGGTT CAGGAATCCTCGTGGCCACTACCTCCAGAGCATCACACCGTGTCTGGCCCTGGGTGGAG  
AGCTCGTCTACCACCGCGGCCAGGAGAGGAGGGCACTGTCATGTCTCTAGCTGGGAAATACACACTGAA  
CAACTGGTTGGCTACAGTAACGCTGGGCCAGGCAGGCATGCATGCGACGTATTACCACAAAGCCAGTGAC  
CAGCTGCAGGTGGGTGTGGAGTTTGAGGCCAGCACCAGGATGCAGGACACCAGTGCCTTTGGGTATC  
AGCTGGACCTGCCAAGGCCAACTTCTTTTTAAAGGCTCTGTGAACAGTAACTGGATCGTGGCGGCCAC  
GCTGGAGAAGAAGCTTCCGCCCTTGCCCTGACTGTCCCTCTGCGCCTTCTGAACCACCGCAAGAAT  
AAGTTCCTGTGTGGCTTCGCCCTCACCATCGGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR224111 protein sequence  
Red=Cloning site Green=Tags(s)

MGNVLAASSPPAGPPPPPTSLVGLPPPPSPPGFTLPPLGGGLGTGSSTGRGSERTPGAAASGAAAASE  
 DGSCGCLPNPGTFEECHRKCKELFPVQMEGVKLTVNKGLSNRFQVTHVALGTIGESNYHFGVTVYVGTKQ  
 LSPTEAFPVLVGDMDNSGSLNAQVIHQLSPLGRSKMAIQTQSKFVNWQVDGEYRGSDFTAAVTLGNPDV  
 LVGSGILVAHYLQSIPTCLALGGELVYHRRPGEEGTVMSLAGKYTLNNWLATVTLGQAGMHATYYHKASD  
 QLQVGVFEASTRMQDTSASFGYQLDLPKANFLFKGSVNSNWIVGATLEKKLPLPLTLTLCAFLNHRKN  
 KFLCGFGLTIG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_016871

**ORF Size:** 1086 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\\_016871.2](#), [NP\\_058567.2](#)

**RefSeq Size:** 1571 bp

**RefSeq ORF:** 1086 bp

**Locus ID:** 53333

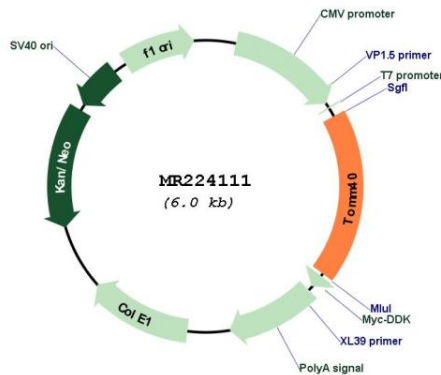
**UniProt ID:** [Q9QYA2](#)

**Cytogenetics:** 7 A3

**MW:** 37.9 kDa

**Gene Summary:** Channel-forming protein essential for import of protein precursors into mitochondria. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR224111