

Product datasheet for MR204376

Tomm34 (NM_025996) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tomm34 (NM_025996) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tomm34
Synonyms:	2610100K07Rik; TOM34
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204376 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCCAAAGTCTCGGATCCGTGGAACAGCTCCGCGCTGCCGGCAACCAGAACTTCCGCAATGGCC
AGTACGGCGAAGCCTCGGCGCTGTACGAGCGCGCACTGCGGCTGCTGCAGGCGCGAGTTCTGCAGACCC
CGAAGAAGAAAGTGTCTGTACTCCAACCGTGCAGCGTGTACTTGAAGGATGGAACTGCACAGATTGC
ATCAAAGATTGCACTTCCGCGCTGGCCTTGGTTCCCTCAGCATCAAGCCCTTGTGCGCAGAGCATCTG
CATATGAAGCCCTGGAGAAGTACGCCCTGGCCTACGTTGACTATAAGACTGTGCTGCAGATCGATAACAG
TGTGGCATCCGCCCTGGAAGGCATCAACAGAATAACCAGAGCTCTCATGGACTCCCTGGGACCTGAGTGG
CGCCTGAAGCTGCCCCCTATCCCTGTGGTGCCTGTTTCAGCCCAGAAGAGATGGAATTCCTTGCCTTCAG
ATAACCACAAAGAGACAGCTAAAACCAATCCAAGAAGCCACAGCTACGAAGAGCAGAGTGCCTTCTGC
TGGGGATGTGGAGAGAGCCAAAGCTCTGAAGGAAGAAGGCAATGACCTTGTAAAGAAGGGCAACCATAAG
AAAGCTATTGAGAAGTACAGTGAGAGCCTTGTGTAGTAGCCTGGAGTCTGCCACATACAGCAACAGAG
CGCTCTGCACCTGGTCTGAAGCAGTACAAGGAGGCAGTAAAGGACTGCACAGAAGCCCTCAAGCTGGA
TGGGAAGAATGTAAGGCGTTTTACAGACGGGCTCAAGCCTACAAGGCACTCAAGGACTATAAGTCAAGC
CTTTCGGATATCAGCAGCCTCTACAAATTGAACCCAGGAATGGCCCTGCACAGAAGTTACGGCAGGAAG
TTAACCGAACATGAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204376 protein sequence
Red=Cloning site Green=Tags(s)

MAPKVSDSVEQLRAAGNQFRNGQYGEASALYERLRLLQARGSADPEEESVLYSNRAACYLKDGNCTDC
 IKDCTSALALVPFSIKPLLRASAYEALYKALAYVDYKTVLQIDNSVASALEGINRITRALMDSLGPWE
 RLKLPPIPVVPSAQRWNSLPSDNHKEATKTSKEATKSRVPSAGDVERAKALKEEGNDLVKKGNHK
 KAIEKYSESLLCSSLESATYSNRALCHLVLKQYKEAVKDCTEALKLDGKNVKAFYRRAQAYKALKDYKSS
 LSDISSLLQIEPRNGPAQKLRQEVNQNMN

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_025996

ORF Size: 930 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 Size: 2319 bp

RefSeq ORF: 930 bp

Locus ID: 67145

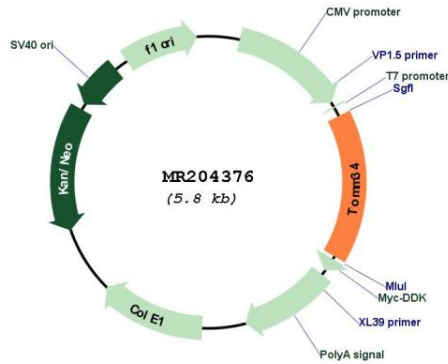
UniProt ID: [Q9CYG7](#)

Cytogenetics: 2 H3

MW: 34.3 kDa

Gene Summary: Plays a role in the import of cytosolically synthesized preproteins into mitochondria. Binds the mature portion of precursor proteins. Interacts with cellular components, and possesses weak ATPase activity. May be a chaperone-like protein that helps to keep newly synthesized precursors in an unfolded import compatible state (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204376