

Product datasheet for **MG204376**

Tomm34 (NM_025996) Mouse Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Tomm34 (NM_025996) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Tomm34 |
| Synonyms: | 2610100K07Rik; TOM34 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG204376 representing NM_025996 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCCAAAGTCTCGGATTCGTGGAACAGCTCCGCGCTGCCGGCAACCAGAACTTCCGCAATGGCC
AGTACGGCGAAGCCTCGGCGCTGTACGAGCGCGCACTGCGGCTGCTGCAGGCGGAGTTCTGCAGACCC
CGAAGAAGAAAGTGTCTGTACTCCAACCGTGCAGCGTGTACTTGAAGGATGGAACTGCACAGATTGC
ATCAAAGATTGCACTTCCGCGCTGGCCTTGGTTCCCTCAGCATCAAGCCCTTGTGCGCAGAGCATCTG
CATATGAAGCCCTGGAGAAGTACGCCCTGGCCTACGTTGACTATAAGACTGTGCTGCAGATCGATAACAG
TGTGGCATCCGCCCTGGAAGGCATCAACAGAATAACCAGAGCTCTCATGGACTCCCTGGGACCTGAGTGG
CGCCTGAAGCTGCCCCCTATCCCTGTGGTGCCTGTTTCAGCCCAGAAGAGATGGAATTCCTTGCCTTCAG
ATAACCACAAAGAGACAGCTAAAACCAATCCAAGAAGCCACAGCTACGAAGAGCAGAGTGCCTTCTGC
TGGGGATGTGGAGAGAGCCAAAGCTCTGAAGGAAGAAGGCAATGACCTTGTAAAGAAGGGCAACCATAAG
AAAGCTATTGAGAAGTACAGTGAGAGCCTTGTGTAGTAGCCTGGAGTCTGCCACATACAGCAACAGAG
CGCTCTGCACCTGGTCTGAAGCAGTACAAGGAGGCAGTAAAGGACTGCACAGAAGCCCTCAAGCTGGA
TGGGAAGAATGTAAGGCGTTTTACAGACGGGCTCAAGCCTACAAGGCACTCAAGGACTATAAGTCAAGC
CTTTCGGATATCAGCAGCCTCTACAAATTGAACCCAGGAATGGCCCTGCACAGAAGTTACGGCAGGAAG
TTAACCAGAACATGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204376 representing NM_025996
 Red=Cloning site Green=Tags(s)

MAPKVSDSVEQLRAAGNQFRNGQYGEASALYERLRLLQARGSADPEEESVLYSNRAACYLKDGNCTDC
 IKDCTSALALVPFSIKPLLRASAYEALEKYALAYVDYKTVLQIDNSVASALEGINRITRALMDSLGPWE
 RLKLPPIPVVPVSAQKRWNSLPSDNHKETAKTKSKEATATKSRVPSAGDVERAKALKEEGNDLVKKGNHK
 KAIEKYSESLLCSSLESATYSNRALCHLVLKQYKEAVKDCTEALKLDGKNVKAFYRRAQAYKALKDYKSS
 LSDISSLLQIEPRNGPAQKLRQEVNQNMN

TRTRPLE - GFP Tag - V

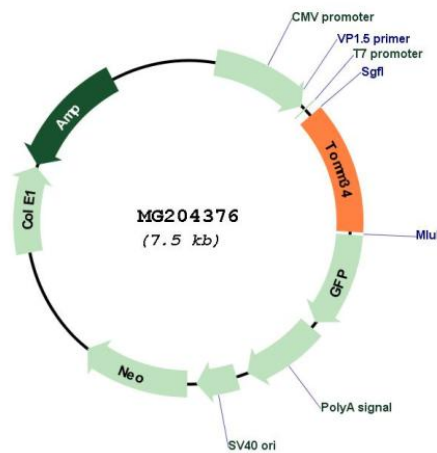
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_025996

ORF Size: 927 bp

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| 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: | <ol style="list-style-type: none">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_025996.1 , NP_080272.1 |
| RefSeq Size: | 2302 bp |
| RefSeq ORF: | 930 bp |
| Locus ID: | 67145 |
| UniProt ID: | Q9CYG7 |
| Cytogenetics: | 2 H3 |
| 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] |