

Product datasheet for **MR209399**

Tomm70a (NM_138599) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Tomm70a (NM_138599) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Tomm70a |
| Synonyms: | 2610044B22Rik; D16lum22; D16lum22e; D16Wsu109e; mKIAA0719; Tom70; Tomm70 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>MR209399 representing NM_138599
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGCTCTAAGCCATAGAGCGGGCATGGCGGGCTGCTGCCCGGTTCTGAAATGGAGTGG
 GCGGTGGCGGTGGGACTGCGGGCCCGGCTCGGGCGCGGGGACCTGCCCGATGGCACGTGGCGCTGGC
 CATCGGGGCGCCCTGTTGCTGGGTGCTGGGGCTATGTACCTGTGGAGCCGAAGGCGGAGGCGCCGGGAA
 GCGGGAGGCGGGGCGACGCCAGCGGCCTGAAGCGCAACAGTGAACGGAAGACCCCGAGGGCAGGGCCA
 GTCCGGCCCTGGGCAGTGGCCACCACGACGGTTCTGGGACTCCCTGAAATGAGCTCTCTGGACAGAGC
 GCAAGCAGCCAAAAACAAAGGCAACAAATATTTCAAAGCAGGAAAATACGAGCAAGCTATTCAGTGTAC
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 CTGCCTTTGAACAATTGCAAAAATGAAAGAAGTGGCCCAAGATTGTACAAAGGCTGTTGAACCTTAATCC
 CAAATATGTGAAAGCCCTCTTTAGACGTGCAAAAGCCCATGAGAAGCTAGACAATAAGAAGGAGTGTTA
 GAAGACGTCACTGCTGTGTATATTAGAAGGGTTTCAAATGAGCAGAGCATGCTGTTAGCTGATAAAG
 TTCTTAAACTTCTGGGAAAGAGAAATGCCAAAGAAAAATACAAGAACCCTGAACCTCTGATGCCATCTCC
 ACAGTTTATTAATCTTACTTCACTTCTTTACCGATGATATAATTTCTCAACCAATGCTTAAGGGAGAG
 AAGTCTGATGAAGATAAAGACAAGGAGGGAGAGGCTTTAGAAGTGAAGAAAAATCTGGGTATTTGAAAG
 CTAACAATATATGGAAGAAGAAAATATGACAAAATCATAAGTGAATGTTCAAAGGAAATAGATGCTCA
 AGGCAATACATGGCAGAAGCATTACTTCTCGAGCCACCTTCTACCTACTTATTGGCAGTGCCAACGCG
 GCCAAGCCTGACTTAGATAAGGTCATCAGTTTGAAGGAAGCTAATGTGAAGCTTCGAGCAAAATGCCCTTA
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 GATCAACAACAGTTTGGTAAAGCTGATGAAATGTATGATAAGTGTATTGATTTGGAACCAGATAATGCTA
 CAACTTATGTTTCATAAAGGTTTACTTCACTTCACTGGAAGCAAGATTTGGATAAAGGTTTGGAGCTTAT
 CAGCAAGGCTATTGAAATGACAACAAATGTGACTTTGCATATGAGACCATGGGGACTATTGAAGTGCAG
 AGAGGAAACATGGAGAAAGCCATTGACATGTTCAACAAAGCTATCAACTGGCCAAGTCGGAATGGAGA
 TGGCTCATCTGTATTCACTTTGTATGCTGCCATGCCAGACAGAAGTAGCAAAGAAATACGGATTA
 ACCGCCGACATTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

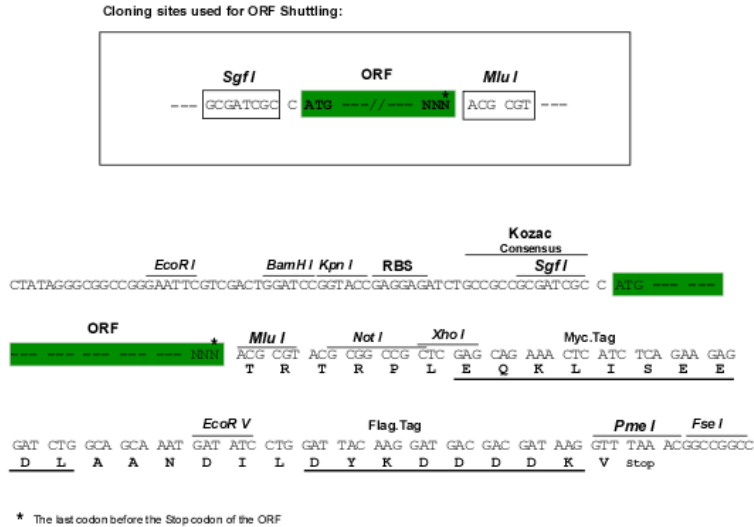
>MR209399 representing NM_138599
 Red=Cloning site Green=Tags(s)

MAASKPIEAAMAAAAAPGSGNGVGGGGTAPGSGAGTLPRWHVALAIGAPLLLGAAMYLWSRRRRRRE
 AGGRGDASGLKRNSERKTPEGRASPALGSGHHDGSGDSLEMSLDRAQAANKGNKYFKAGKYEQAIQCY
 TEAISLCPTEKNVDLSTFYQNRAAAFEQLQKWEVAQDCTKAVELNPKYVKALFRRAKAHEKLDNKKECL
 EDVTAVCILEGFQNEQSMLLADKVLKLLGKENAKEKYKNREPLMPSPQFIKSYFSSFTDDIISQPMLKGE
 KSDEDKDKEGEALEVKENSGYLKAKQYMEEENYDKIISECSKEIDAQGYMAEALLLRATFYLLIGSANA
 AKPDLDKVISLKEANVKLRANALIKRGTMCMQQPMLSTQDFNMAAIEDPMNSDVYHHRGQLKILLDLV
 EEAVADFACIRLRPKFALAQAQKCFALYRQAYTANSSQVQAAMKGFEEI IKKFPRAEGYALYAQALT
 DQQQFGKADEMYDKIDLEPDNATTYVHKGLLQLQWKQDLKGLLEISKAIEIDNKCDFAYETMGTIEVQ
 RGNMEKAIDMFKAINLAKSEMMAHLYSLCDAHAHQTEVAKKYGLKPPTL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_138599

ORF Size: 1833 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

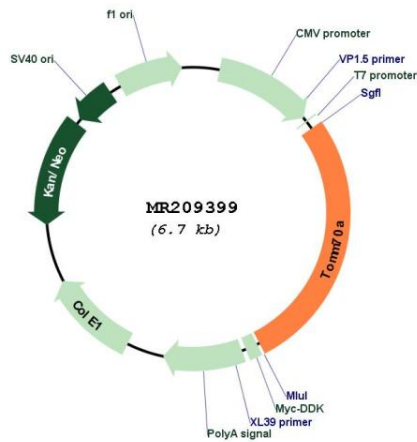
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_138599.5, NP_613065.2](#)
RefSeq Size: 3778 bp
RefSeq ORF: 1836 bp
Locus ID: 28185
UniProt ID: [Q9CZW5](#)
Cytogenetics: 16 34.22 cM
MW: 68 kDa
Gene Summary: Receptor that accelerates the import of all mitochondrial precursor proteins. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209399