

Product datasheet for **SC126444**

TOMM40 (BC047528) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | TOMM40 (BC047528) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | TOMM40 |
| Synonyms: | C19orf1; D19S1177E; PER-EC1; PEREC1; TOM40 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |

Fully Sequenced ORF: >OriGene sequence for BC047528 edited
 TGGGTGGCGGCGCGCCAGCGGGTTTCGGTTGCGCGTGGCGCACGGGGTGGGAGCGGAGCC
 CAGGCCGGGAGCAGGCGCCGCCACAGCGACCATGGGGAACGTGTTGGCTGCCAGCT
 CGCCGCCCGCAGGGCCGCCACCGCCGCTGCGCCGGCCCTCGTGGGGCTGCCGCCACCTC
 CGCCCTCGCCGCGGGCTTACGCTGCCCGCTGGGAGGCAGCCTGGGCGCCGGCACCA
 GTACGAGTCGAAGTTCGGAACGGACCCCGGGGCTGCAACCGCCAGCGCCTCAGGGGCCG
 CCGAGGATGGGGCTGCGGCTGCCTGCCAACC CGGCACATTGAGGAGTGCCACCGGA
 AGTGCAAGGAGCTGTTCCCATTCAGATGGAGGGTGTCAAGCTCACAGTCAACAAAGGT
 TGAGTAACCATTTTCAGGTCAACCACACAGTAGCCCTCAGCACAATCGGGGAGTCCAAC
 ACCACTTCGGGGTCACATATGTGGGACAAAGCAGCTGAGTCCCACAGAGCGTTCCCTG
 TACTGGTGGGTGACATGGACAACAGTGGCAGTCTCAACGCTCAGGTCATTACCAGCTGG
 GCCCGGTCTCAGGTCCAAGATGGCCATCCAGACCCAGCAGTCGAAGTTTGTGAAGTGGC
 AGGTGGACGGGGAGTATCGGGGCTCTGACTTCACAGCAGCCGTCACCCCTGGGGAACCCAG
 ACGTCCTCGTGGGTTAGGAATCCTCGTAGCCACTACCTCCAGAGCATCACGCCTTGCC
 TGGCCCTGGTGGAGAGCTGGTCTACCACCGCGGCGCTGGAGAGGAGGGCACTGTATGT
 CTCTAGCTGGGAAATACACATTGAACAACGGTTGGCAACGGTAACGTTGGGCCAGGCGG
 GCATGCACGCAACATACTACCACAAAGCCAGTGACCAGCTGCAGGTGGGTGTGGAGTTT
 AGGCCAGCACAAGGATGCAGGACACCAGCTCTCCTTCGGTACCAGCTGGACCTGCCCA
 AGGCCAACCTCCTTTCAAAGGTAAGGTCTCGGTTCCCTACGCGGGAACAGGCAGGA
 GGTGACTCAACTCTGAGTGGATGTGTGGGCCACACAGGTGCTGGAGGACAGTGTGCTGC
 CACCCTGTGGGCTCCACATTACCGGGGAACACTTGTTAAAAGGTAGGTGGGGCCGGGTG
 CGGTGGCTCGGCCTGTAGTCCCAGCACTTTGGGAGGCCAAGGCGGGCCGAGGTAAGGAG
 ATTGAGACCATCCTGGCTAACACGGTGAAACTCCGTCTCTACTAAAAATACAAAAACAAA
 ATTAGCCGGGTGTGGTTGCGGGTGCCTGTGGTCCCAGCTACTGAGGCTGAGGCGGGAAAA
 TGGTATGAGCCCGGAGGCGGAGCTTTCGGTGAGCCGAGATCGTGCCACCGCACTCCAGC
 CTGGGCGACAGAGCAAGACTCCATCTCAAAAAAAAAAAGTAGGTGGACAACCTCTACT
 ATGTTTTATGCTTGGAAAAAAAAAGTAGGTAGAGCGGCCAGGCGTGGTACTCGGCCTG



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TAATCCCAGCATTTTGGGAGGCCAAGCCAGGTAGAATACTTGGGGCCAGGAGTTGGAGAC
 CAGCCTGGCCAACGTGGTAAATCCCCTCTACTAAAAGTACAAAAATTGGCCAGGTGT
 GGTGGCGTGCTGCAACTGTGGTCCCCGCTACTTAGGAGGCTGAGGCACAAGAATCACTTG
 AACCTGGGAGGCGGAGGTTGCAGGGAGTTGAGACTGCACCACTGCACTCCAGCCTGGGTG
 ACAGAGTGAGACTCCATCTCCAAAAAATAAAATGAAATAAATAAATAAATGTTAAAAA
 AATCTGGTGGAGCATCTGATGGGTGTTTGGGCCAAGCTGGAGCTTTGTCCATCCCCTCTT
 ATTTTCTGCACTTGACTCTCTTATTTTTCTGAGACTGGTCTCCCTCTGTGCGCCAGGCT
 GGAGTGACAGCAGTCCAACCTGCGGCTCACTGCGGCTCCACCTCCCGGGCTCAAGCAGCT
 TCCCGCTCGGCCTCCTGAGTAGCTGGGACCACAGGTGTATGCCACCAGGCCAGCTAAT
 TTTTTGATAGTTTTGGGAGACATGGGGTTTACCGTGTGCCAGGCTGGTCTCGAAC
 TCCTGGACTCAAGCCTTGGCCTCCCAAAGTGTGGGATTATAGGTGTGAGCCACCACACC
 CAGCCAGGGTAGAAGGCACTTTGGAAGCCTCGAGCCTGCCCATTCATCTTACGTTAGTG
 GAAACTGAGGCTTCCAGAGGTTTCAAGGTCACAATAAATCCAGAACCTCATCTCAGGCA
 CACTGGTCGTAGTCCCAATGTCCAGTCTTAAGTCTTCTGGATATCTGTGGCTCACAGAT
 TTTGGGTGTTTGGCCTCCTGCTGAGCACTGCTGGGGCCACAGCGGTGACCAGCCTGTG
 TTCACGGGACTCAGTGAGAGGAACAGATTATCCGCAGAGTGGGCAAGACTAGGTTGGGG
 GAACCCAGGGGTCTAGAGGGCTTTTTCAGAGGGCAGGGGTCACTGAGCGGAGAGCAGAGGA
 GGAGTGAGCCATTTGCTCCAGCGTGAAGTTGTTGGTGTGATGGGGTTTTCAGGGTGGCAGG
 AGCAGTGTGGTTAAAGTCTGGAAGCTGTGCGCATGTGGCTGGTATCCAAGTGGCCAGG
 AACTCTGCATGGATATGGTGGGAAGCTGGCAGCCTCTCACCTCAGCTCTTCCCTGCAGG
 CTCTGTGGATAGCAACTGGATCGTGGGTGCCACGCTGGAGAAGAAGCTCCACCCCTGCC
 CCTGACACTGGCCTTGGGGCTTCTGAATCACCGCAAGAACAGGTTTTCAGTGTGGCTT
 TGGCTCACCATCGGCTGAGCCCTCTGGCCCCGCTTCCACGCCCTCCGATTCCACC
 TCCACCTCCACCTCCCCCTGCCACAGAGGGGAGACCTGAGCCCCCTCCCTTCCCTCCCC
 CCTTGGGGTTCGGGGGGGACATTGGAAGGAGGGACCCCGCACCCAGCAGCTGAGGA
 GGGGATTCTGGAAGTGAATGGCGCTTCGGGATTCTGAGTAGCAGGGGAGCATGCCAGT
 GGGCCTGGGGTCCCGGAGGGATTCCGGAATTGAGGGGCACGCAGGATTCTGAGCACCAG
 GGGCAGAGGCGGCCAGACAACCTCAGGGAGGAGTGTCTGGCGTCCCATCCTCCAAAGG
 GCCTGGGCCCCCGGAGGGGGCAGCGAGAGGAGCTTCCCATCCCCGGTCACTCCACC
 TGCCCCGTCCACTTCCCATCTCCTCGGTATAAATCATGTTTATAAGTTATGGAAGAACC
 GGGACATTTTACAGAAAAAACAACAAAAAATAACAAAAATATACGTGGGAAAAAAAAA
 AAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for BC047528 unedited
 AGGTTCCGATTTGTATACGAGACTATAGGCGCCGCATAACTTCGTATAGCATAACATTA
 TACCAAGTTATGGATCANGCCAAATCGGGCGAGCTCGAATTCCTCCAGAGCGTGGTGGC
 GCGGGCGGAGCGGGTCCGTTGCGCGTGGCGCACGGGTGGGAGCGGAGCCAGGCCGG
 GAGCAGGGCGCCGCCACAGGGCACCATGGGGAACGTGTTGGCTGCCAGCTCGCCGCC
 GGAGGGCCGCCACCGCCGCTGCGCCGGCCTCGTGGGGTGGCCACCTCCGCCCTCG
 CCGCCGGGCTTACGCTGCCCCCTGGGAGGCAGCCTGGGCGCCGGCACCAGTACGAGT
 CGAAGTTCGGAACGGACCCCGGGGCTGCAACCGCCAGCGCCTCAGGGGCGCCAGGAT
 GGGGCTGCGGCTGCCTGCCAACCCGGGCACATTCGAGGAGTGCCACCGGAAGTGAAG
 GAGCTGTTTCCATTAGATGGAGGGTGTCAAGCTCACAGTCAACAAAGGGGTGAGTAAC
 CATTTTCAAGTGCACCACAGTAGCCCTCAGCACAATCGGGGAGTCCAACCTACCACTTC
 GGGTTCACATATGTGGGACAAAGCAGCTGAGTCCCACAGAGGCGTTCCTGTACTGGTG
 GGTGACATGGACAACAGTGGCAGTCTCAACGCTCAGTCACTTACCAGCTGGGCCCCGG
 TCTCANGTGCAAGATGGCGCTCCAGACCCAGCAGTGAAGTTTGTGAAGTGGCAAGTGA
 CCGGGAGTATCGGGGCTCTGACTTCAANCAACCCTCACCTGGGGGACCCANACCTCCTCG
 TGGGTTCAAGGAATCCTTGTACCCCTACCTCCAGAGCATACCCCTGCCTGGCCGGGT
 GGAGAGGCTGTCTCCCCGGGGGCTGGAG

Restriction Sites:

NotI-NotI

| | |
|-------------------------------|---|
| ACCN: | BC047528 |
| Insert Size: | 3400 bp |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| OTI Annotation: | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA. |
| 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: | BC047528.1 , AAH47528.1 |
| RefSeq Size: | 3424 bp |
| Locus ID: | 10452 |
| Cytogenetics: | 19q13.32 |
| Protein Families: | Druggable Genome, Ion Channels: Other |
| Protein Pathways: | Amyotrophic lateral sclerosis (ALS) |
| Gene Summary: | The protein encoded by this gene is localized in the outer membrane of the mitochondria. It is the channel-forming subunit of the translocase of the mitochondrial outer membrane (TOM) complex that is essential for import of protein precursors into mitochondria. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Aug 2015] |