

Product datasheet for **SC116139**

TIMM44 (NM_006351) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TIMM44 (NM_006351) Human Untagged Clone
Tag:	Tag Free
Symbol:	TIMM44
Synonyms:	TIM44
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC116139 sequence for NM_006351 edited (data generated by NextGen Sequencing)

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ATGGCGGCGGGCCCTGCGGAGTGGCTGGTGCCGCTGTCCACGGAGATGCCTCGGCAGT
GGAATCCAATTTCTTTCCAGCCACAACCTACCCCATGGGTCGACCTATCAGATGCGCCGG
CCGGGCGGAGAGCTGCCACTGTCCAAATCATATTCTTCTGGAAACAGAAAAGGCTTTCTG
TCCGGCTTGCTAGATAATGTCAAACAAGAATTAGCCAAAAACAAGAAATGAAAGAAAGT
ATAAAAAAATCCGTGACGAGGCCAGAAGGCTAGAAGAATCAGACGTGCTCCAGGAGGCC
AGAAGGAAATACAAAACCATCGAGTCAGAAACCGTGCGGACGAGCGAGGTGCTACGGAAG
AAGCTTGGGGAGCTGACGGGCACCGTGAAGGAGAGCCTTCACGAAGTCAGTAAAAGTGAT
CTCGGCCGAAAAATCAAGGAGGGCGTGGAGGAAGCAGCCAAGACGGCCAAGCAGTCGGCC
GAGTCGGTATCCAAAGGCGGGGAGAAGCTGGGCAGGACAGCGCCTTCAGAGCCCTCTCC
CAGGGGTGGAGTCCGTGAAGAAGGAAATTGACGACAGCGTCCTGGGACAGACCGGGCCC
TACCGGAGCCCCAGCGACTCCGGAAGAGAACGGAGTTTGC GGAGATAAGTTCAAGGAG
GAGAAAGTGTGAGCCAAACGAGKAGGCCCTGGGGTCTGTGCTGCACAAGGACTCCAAG
TGGTACCAGCAGTGAAGGACTTCAAGGAGAACAACGTGGTGTGTTAACCGTTCTTCGAG
ATGAAGATGAAGTATGACGAAAGCGACAACCGTTCATCCGGGCATCCCGGGCCCTTACG
GACAAGGTCACCGACTTGTGGGGGCCTGTTCTCCAAGACAGAGATGTCGGAGGTGCTC
ACGGAGATCCTCCGGGTGGACCCGGCCTTTGACAAGGACCGGTTTCTGAAACAGTGCGAG
AACGACATCATCCCCAATGTCTCTGGAGGCCATGATTTCTGGAGAGCTTGACATTCTCAA
GACTGGTGCTATGAAGCTACTTACAGCCAGCTGGCCCACCCATCCAGCAGGCCAAGGCA
CTGGGTCTCCAGTTCATTCTCGCATCTAGACATTGACAACGTGACCTGGCCATGGGC
AAGATGATGGAGCAGGGGCCGGTGTGATCATCACCTTCCAGGCACAGCTGGTGTGGTG
GTCAGGAACCCAAAGGCGAGGTGGTGGAGGTGACCCGGACAAGGTGCTGCGGATGCTG
TACGTGTGGGCGCTCTGCCGAGACCAGGACGAGCTCAACCCCTACGCGGCCTGGCGGCTC
CTGGACATCTCGGCCTCCAGCACCGAGCAGATTCTCTGA

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Clone variation with respect to NM_006351.3
685 g=>k

5' Read Nucleotide Sequence: >OriGene 5' read for NM_006351 unedited

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CGGCGGATGACGCAACCGGGCCGCGCCGAGAAAGGTCACACGATTCTCCAACATGGCGG
CGGCGGCCTGCGGAGTGGCTGGTGCCGCTGTCCACGGAGATGCCTCGGCAGTGGAAATCC
AATTTCTTTCCAGCCACAACCTACCCCATGGGTCGACCTATCANATGCGCCGGCCGGGCG
GAGAGCTGCCACTGTCCAAATCATATTCTTCTGGAAACAGAAAAGGCTTTCTGTCCGGCT
TGCTAGATAATGTCAAACAAGAATTAGCCAAAAACAAGAAATGAAAGAAAGTATAAAAA
AATTCGTGACGAGGCCAGAAGGCTAGAAGATNCAGACGTGCTCCAGGAGGCCAGAAGGA
AATACAAAACCATCGAGTCAGAAACCGTGCGGACGAGCGAGGTGCTACGGAAGAAGCTTG
GGGAGCTGACGGGCACCGTGAAGGGAGTAGAGCCTTACGAAAGTCGTAAGTATCTCG
GCCGGAANATCAAGAGGGCGTTNGAGGAAGCACCCAGACGCCNAGCAGTCGGCGGAAGTC
GGATCAAAGGGCGGGGAGAAGCTGGGCAGGACAGCGCCTTCAAGCCTTCCAGGGGGGGG
GGGGGAGTCGGGAAAAAAGGAAATTGANNAACAGCGTCTGGGACAAGACCGGCCTTAA
ACCGGAGCCCAGCGATNTCNGAGAGAAAAGGGGTTTTGGGGGAAATAATTCAAGGGGG
GAAAAAGGGTGTGAGCAACAAAGTTAGACCNAGCCGTGGCCTCGCTGCCCCATTTTGG
GCAGTTTAACTGTGTCCTTTTTTGGAGCCACCAAGGTCCTCA

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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_006351 unedited AACTGAGGGGNCGGTGTATTTTTTTGCCAAAGCTCAGNCTTATGCACAAGNAGGNAA NAGCACTGTAAAATAAAAAATGGACCTAAGTGGCTTGGCTGACGTGGCTAGCGGGCCAC TGAGCCGCGGGTCCCAGGTCACCCCTGCTGTGGGGGAGTCCCTGGGCCCTGGGGCCTC TTGGCACTGTGTGACCTGTGTGACCCAGGTACCAGGCGCCGGGACCCCTGCAGGGCA GAGCAACAGGGCAGGGGTTGGCCCTGCGGGGAGTGTCTCCAGCTGCCGCGCACCCGCAA CAGCCCGTTGTCCCCTCCCAGGTCAGTGGTCTTGACGCCGTCTGGCAGAGCTGGGGGC AGAGCCCGCAGTCTTGTCCAGAGGTCTGGAGTTGCCGAGGTGGTGTTCGGTGCCTC TGTGCCTGATGACCCAGGCCGGGCTACCTGGCTCCGGCACCACTCAGAGAATCTGCT CGGTGCTGGAGCCGAGATGTCCAGGAGCCGAGGCCGCGTAGGGGTTGAGCTCGTCT GGTCTCGGCAGAGCGCCACACGTACAGCATCCGACGACCTTGTCCGGGTCACCCTCCA CCACCTCGCCTTTGGGGTTCCTGACCACCATCACCAGCTGTGCCTGNGAGGTGATGATCA GCACCGGCCCTGCTCCATCATCTTGCCATGCCAGGTCGACGTTGTCAATGTCTANGA TGCGAGAAATGAACTGGAGACCCAGTGCCTTGGCCTGCTGNATGGGGTGGCCAGCTGGC TGTAAGTAGCTTCATAGCACCACTTTGAAATGTCAAGCTCTCCAGAAACATGCCCTCC AGAACATTGGGGATGATGCCTTCTCCACTGTTTCAGAAACCGTCTTGCCTCAAGCGGGT CCCCGGAGATCTTCGGGAC
Restriction Sites:	NotI-NotI
ACCN:	NM_006351
Insert Size:	2440 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).
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_006351.2 , NP_006342.2
RefSeq Size:	1897 bp
RefSeq ORF:	1359 bp
Locus ID:	10469
UniProt ID:	O43615
Cytogenetics:	19p13.2
Domains:	Tim44

Gene Summary:

This gene encodes a peripheral membrane protein associated with the mitochondrial inner membrane translocase, which functions in the import of proteins across the mitochondrial inner membrane and into the mitochondrial matrix. The encoded protein mediates binding of mitochondrial heat shock protein 70 to the translocase of inner mitochondrial membrane 23 (TIM23) complex. Expression of this gene is upregulated in kidney in a mouse model of diabetes. A mutation in this gene is associated with familial oncocyctic thyroid carcinoma. [provided by RefSeq, Jul 2016]