

Product datasheet for **RC229716**

TIMM17B (NM_001167947) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TIMM17B (NM_001167947) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TIMM17B
Synonyms:	DXS9822; JM3; TIM17B
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC229716 representing NM_001167947 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGAGGAGTACGCTCGGGAGCCCTGCCATGGCGAATTGTGGATGATTGCGGTGGAGCCTTCACTATGG
GTGTCATCGGTGGCGGAGTCTTCCAGGCCATCAAGGGTTTCCGCAATGCCCTGTTGCAGATTGCTGTC
TGAAGCTCCCTTGTTTACTACTCTTGTCAAGATCTGTGCTCCACCGTTAATGTGAGCTCTGAGAGG
GCAGAGAGCAGACCTACCTTGTTTCATGGCTGTATCCCTGCATATGGCATGGTGCTTGGCAGATATAGGAA
TTCGGCACCGGTTGAGAGGTAGTGCCAATGCTGTGAGGATCCGAGCCCCCAGATTGGAGGTAGCTTCGC
AGTGTGGGGGGGCTGTCTCCACCATGACTGTGGCCTGGTGCAGCTTCGGGGCAAGGAGGATCCCTGG
AACTCTATCACCAGTGGAGCATTGACCGGGGCTGTGCTGGCTGCCCGAGTGGCCCACTGGCCATGGTGG
GCTCAGCAATGATGGGGGCGATCCTGTTGGCCCTCATTGAGGGCGTTGGCATCCTCCTCACTCGCTACAC
AGCCCAGCAGTTCCGAAATGCGCCCCATTCTGGAGGACCCAGCCAGCTGCCCCCTAAGGATGGCACC
CCGGCCCCAGGCTACCCAGCTATCAGCAGTACCAC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC229716 representing NM_001167947
 Red=Cloning site Green=Tags(s)

MEEYAREPCPWRIVDDCGGAFTMGVIGGGVFQAIKGFNAPVCRLLEAPLFIYSCSRVSPTVNVSSER
 AESRPTLFMAVSLHMAWCLAHIGIRHLRGSANAVRIRAPQIGGSFAVWGGLFSTIDCGLVRLRGKEDPW
 NSITSGALTGAVLAARSGPLAMVGSAMMGILLALIEGVGILLTRYTAQQFRNAPPFLEDPSQLPPKDG
 PAPGYPSYQQYH

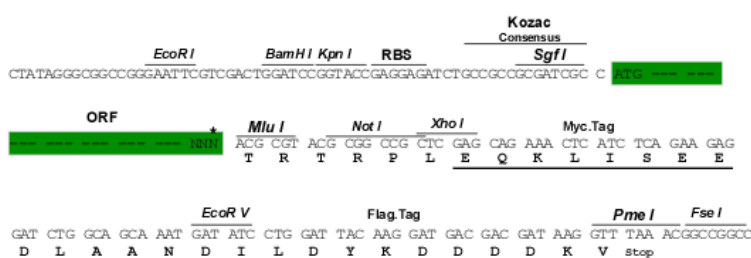
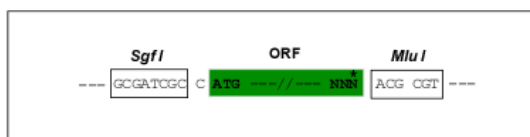
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Cloning Scheme:

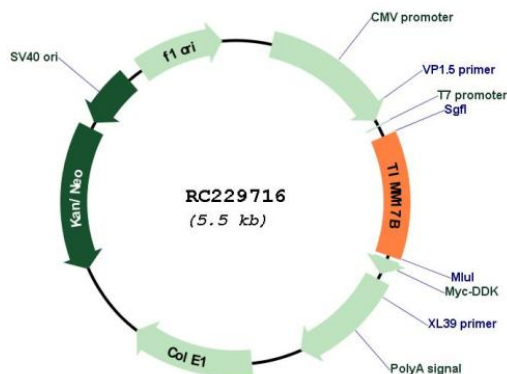
Sgfi-MluI

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001167947

ORF Size: 666 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:	<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_001167947.1 , NP_001161419.1
RefSeq ORF:	669 bp
Locus ID:	10245
UniProt ID:	O60830
Cytogenetics:	Xp11.23
Protein Families:	Transmembrane
MW:	24.3 kDa
Gene Summary:	This gene encodes a multipass transmembrane protein that forms an integral component of the mitochondrial translocase TIM23 complex. This complex facilitates the transport of mitochondrial proteins from the cytosol across the mitochondrial inner membrane and into the mitochondrion. There is a pseudogene for this gene on chromosome 12. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]