OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR207222

Timm44 (NM_011592) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Timm44 (NM_011592) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Timm44
Synonyms:	0710005E20Rik; D8Ertd118e; Mimt44; Tim44
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>MR207222 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCGGCAGCTCTGCGGGGTGGCTGGTGCCGCTGTCCGCGGAGGTGCCTAGGCAGCGGAATCCAAT
TTCTCTCCAGCCACAACCTACCCCATGGTTCAAGCTACCAGATAAGCCGGCCAGGAAGAGAGCTGACACT
GACCAAATCTTATTCTTCTGGGAGCAGAAAAGGGTTTTTGTCAGGCTTGCTAGATAACATCAAACAAGAA
TTAGCCAAAAACAAAGAGATGAAAGAAAGTATAAAAAAGTTCCGAGATGAGGCCAAGAAGCTAGAAGAGT
CGGATGCTCTCCAGGAAGCCAGAAGGAAGTATAAATCCATCGAATCAGAAACTGTGCGTACCAGTGAAGC
AATAAAAAAGAAGCTTGGAGAATTAACAGGGACAGTGAAGGAGAGTCTTGATGAAGTCAGTAAGAGTGAC
CTTGGCCGGAAGATCAAGGAGGGGGTAGAAGAGGCCGCCAGGACAGCCAAGCAGTCAGCGGAGTCAGTGT
CCAAGAGCGGGGAGAAGCTGGGCAAGACGGCAGCCTTCAAAGCCATCTCCCAGGGTGTAGAGTCAGTGAA
GAAGGAGCTTGACGAGAGCGTGCTTGGACAGACGGGGCCCTACCGCCGGCCCGAGCGGCTCCGGAAAAGG
ACAGAGTTTGCTGGAGCAAAATTCAAAGAAAGCAAAGTGTTCGAGGCTAATGAGGAAGCATTAGGGGTTG
TGCTACACAAGGACTCCAAGTGGTACCAGCAGTGGAAGGACTTCAAAGATAACAACGTTGTATTCAACCG
CTTCTTTGAGATGAAGATGAAGTATGATGAAAGTGACAATGTCCTCATCCGGGCGTCGCGGGCCTTAACC
GACAAGGTCACTGACTTGCTAGGAGGTCTTTTCTCAAAGACAGAAATGTCAGAGGTGCTAACGGAGATCC
TGAGAGTGGACCCAACCTTTGACAAGGACCACTTTCTTCATCAGTGTGAGACTGACATCATCCCCAACAT
CCTAGAGGCCATGATTTCCGGGGAGCTTGACATTCTCAAAGACTGGTGCTATGAAGCTACCTACAGCCAG
CTGGCCCACCCTATCCAGCAGGCCAAGGCTCTGGGCTTCCAGTTCCACTCCCGAATTCTGGACATCAGCA
ATGTGGACCTGGCCATGGGCAAGATGATGGAGCAGGGCCCAGTGCTGATCGTTACCTTTCAGGCCCAGGT
GGTGATGGTGATCAAGAACTCCAAAGGCGAGGTGTATGATGGTGACCCGGACAAGGTGCAGCGAATGCTG
TACGTGTGGGCACTCTGCAGAGACCAGGAGGAGCTCAACCCTTATGCTGCCTGGCGCCTTCTGGACATCT
CAGCCTCCAGCACAGAGCAGATCCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

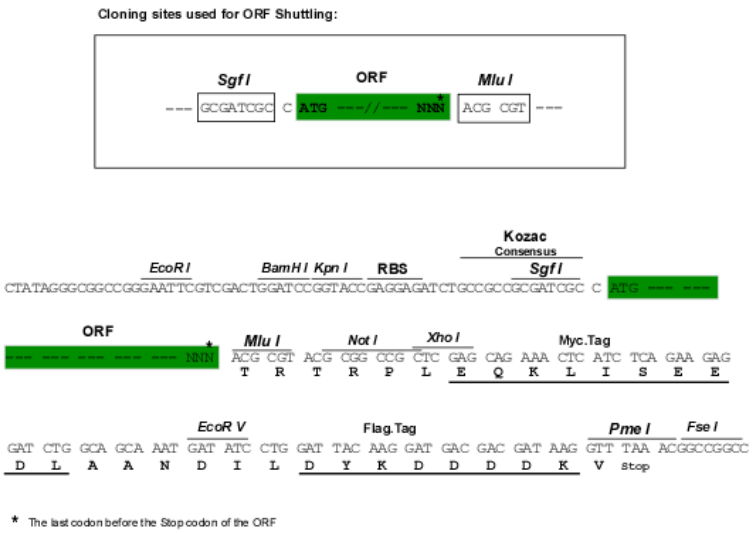
>MR207222 protein sequence
Red=Cloning site Green=Tags(s)

MAAAALRGGWCRCPRRCLGSGIQFLSSHNLPHGSSYQISRPGRELTLTKSYSSGSRKGFLSGLLDNIKQE
LAKNKEMKESIKKFRDEAKKLEESDALQEARRKYKSIESETVRTSEAIKKKLGELTGTVKESLDEVSKSD
LGRKIKEGVEEAARTAKQSAESVSKSGEKLGKTAAFKAISQGVESVKKELDESVLGQTGPYRRPERLRKR
TEFAGAKFKESKVFEANEEALGVVLHKDSKWYQQWKDFKDNNVVFNRFFEMKMKYDESDNVLIRASRALT
DKVTDLLGGLFSKTEMSEVLTEILRVDPTFDKDHFLHQCETDIIPNILEAMISGELDILKDWCYEATYSQ
LAHPIQQAKALGFQFHSRILDISNVDLAMGKMMEQGPVLIVTFQAQVVMVIKNSKGEVYDGDPDKVQRML
YVWALCRDQEELNPYAAWRLLDISASSTEQIL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011592

ORF Size: 1359 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:
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_011592.2, NP_035722.2

RefSeq Size: 1798 bp

RefSeq ORF: 1359 bp

Locus ID: 21856

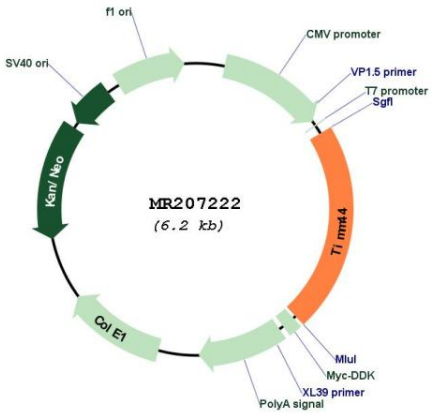
UniProt ID: O35857

Cytogenetics: 8 1.99 cM

MW: 51.1 kDa

Gene Summary: Essential component of the PAM complex, a complex required for the translocation of transit peptide-containing proteins from the inner membrane into the mitochondrial matrix in an ATP-dependent manner. Recruits mitochondrial HSP70 to drive protein translocation into the matrix using ATP as an energy source.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207222