

Product datasheet for **MR228088**

Timm22 (NM_001291161) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Timm22 (NM_001291161) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Timm22
Synonyms: Tim22
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR228088 representing NM_001291161
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCATAGGCAGACTTTGCTTCTACACCTTCTTCAGTGTGGCGAATCTGCCGTTGTCGCTACTCTGGCTG
GACGCCTAGGGTTTGTCTTGGGAGGCGCGTTTGGTATCTTTACTGCTGGCATTGATACCAACGTAGGCTT
TGACCCAAAGGACCCTTACCGGACACCAACTGCAAAAGAAGTCTGAAAGACATGGGACAGAGAGGAATG
TCCTATGCCAAAACTTTGCCATTGTGGGCGCCATGTTTTCTGTACTGAGTGTCTGGTAGAGTCTTACC
GGGGAAGTCTGGACTGGAAGAACAGCGTCATCAGTGGCTGCATCACTGGCGGAGCCATCGGCTTCCGAGC
TGGAGTAAAGGCCGGGGCATAGGTTGTGGAGGTTTGCTGCTTCTCTGCTGCAATCGATTATTACCTA
CGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228088 representing NM_001291161
Red=Cloning site Green=Tags(s)

MHRQTLHLHLLQCGESAVVVTLAGRLGFVLGGAFGIPTAGIDTNVGFDPKDPYRPTAKEVLKDMGQRGM
SYAKNFAIVGAMFSCTECLVESYRGKSDWKNVISGCITGGAIGFRAGVKAGAIGCGGAFAFSAIDYYL
R

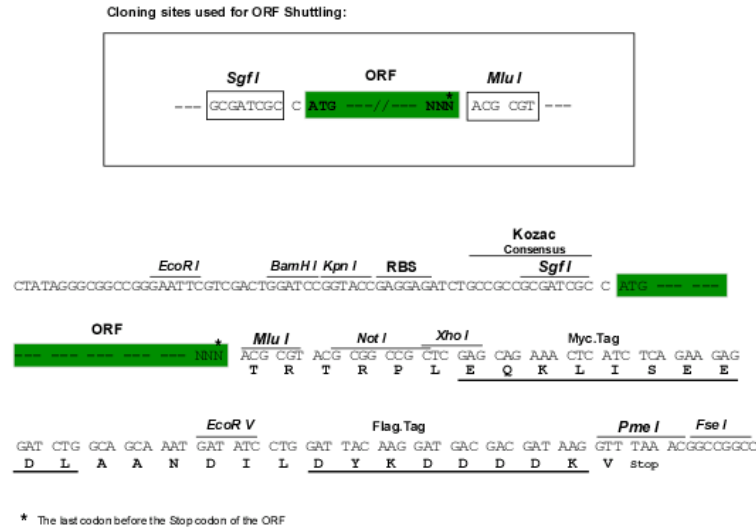
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN:	NM_001291161
ORF Size:	423 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001291161.1 , NP_001278090.1
RefSeq Size:	2757 bp
RefSeq ORF:	426 bp
Locus ID:	56322

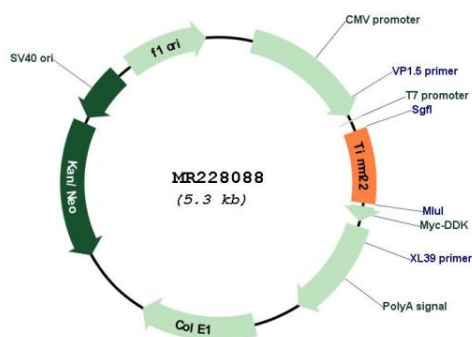
UniProt ID: [Q9CQ85](#)

Cytogenetics: 11 B5

MW: 15.3 kDa

Gene Summary: Essential core component of the TIM22 complex, a complex that mediates the import and insertion of multi-pass transmembrane proteins into the mitochondrial inner membrane. In the TIM22 complex, it constitutes the voltage-activated and signal-gated channel. Forms a twin-pore translocase that uses the membrane potential as external driving force in 2 voltage-dependent steps (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR228088