

Product datasheet for **MR226036**

Trim72 (NM_001079932) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trim72 (NM_001079932) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trim72
Synonyms:	BC067209; MG53
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR226036 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGGCTGCACCCGGCCTTCTGCGTCAGAACTGTCCTGCCACTGTGCTTGCAGCTGTTTCGATGCGC
 CAGTGACGGCTGAGTGTGGCCACAGTTTCTGCCGTGCCTGCCTGATCCGGGTGGCAGGGAGCCTGCTGC
 GGACGGCACAGTTGCCTGTCCCTGTTGTGAGGCACCTACACGGCCGAGGCTCTAAGCACTAACCTCCAG
 TTGTACAGCCTTGTGGAGGGTTTGGCGCAAGTGCCCAAGGCCACTGCGAGGAACACCTGGATCCACTGA
 GCATCTACTGCGAGCAGGACCGCACACTTGTGTGGTGTGTGCTCGCTCGGTTCTCACCGTGGTCA
 TCGTCTCTGCTGCCGCTGAAGCCCAAGCACGCCTCAAGACACAGCTTCCACAGCAGAAGATGCAGCTG
 CAGGAGGCATGCATGCGCAAGGAGAAGACTGTAGCGGTGCTGGAGCATCAGCTGGTGGAGGTGGAGGAGA
 CAGTGCGCCAGTTCGGGGAGCTGTGGGGAGCAGCTGGGAAGATGCGGATGTTCTCGCTGCCCTAGA
 AAGTTCTCTGGACCGTGAAGCAGAAAGGTTCCGGGTGATGCTGGGGTTGCCTTTCGCTCGGGAGCTGTCA
 AGCCTGAACTTTACCTAGAGCAACTGAGGCAGATGGAGAAGGTGCTGGAGGAGGTGGCTGACAAGCCAC
 AGACAGAAATTCCTCATGAAATTCGCTGGTAACCAGCAGGCTGCAGAAGATCCTGTGAGATCACCACC
 ACCGGCAAGGCTAGATATCCAGCTGCCTGTCTCAGATGACTTCAAATTCAGGTGTGGAAGAAGATG
 TTCCGGGCTCTGATGCCAGCGCTGGAGGAAGTACTTTTGACCCAGCTCTGCGCACCCGAGCCTGGTGG
 TGTCTCTCTGGTCGCCGAGTGGAGTGTCTCAGACCAGAAGGCCGCCAGCGGGAGAAGACACCGCTCA
 GTTCGACAAGGCAGTAGCGGTGGTGGCGCAGCAGCTGCTGTACAGGGCAGCACTATTGGGAGGTGGAG
 GTGGGCGACAACCACGCTGGGCCCTGGGAGTGTGGCGGCTGACGCTTCCCGCGTGGCCGGCTGCACG
 CGGTGCCCTCACAGGGGCTGTGGCTGCTGGGTCTGCGGATGGCAAGATCCTGGAGGCGCACGTGGAGGC
 CAAGGAGCCGCGGCACCTGCGCACCCAGAGAGCCCTCCGGCGCGCATTGGCCTCTACCTAAGCTTCGCA
 GATGGCGTCTGGCTTTCTATGATGCGAGCAACCCGACGTAATTACGCCAATTTTTCTTTCCACGAGC
 GTCTGCCCGGGCCGGTGTACCCATCTTTGACGTGTGCTGGCAGCACAAGGGCAAGAATGCCAGCCCT
 GCTGCTTGTGGGGCCGGAGCAGGAACAGGCC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226036 protein sequence
 Red=Cloning site Green=Tags(s)

MSAAPGLLRQELSCPLCLQLFDAPVTAECGHSFCRACLIRVAGEPAADGTVACPCQAPTRPQALSTNLQ
 LSRLVEGLAQVPQGHCEEHLDP LSIYCEQDRTLVCGVCASLGSHRGHRLLPAAEAQARLKTQLPQQKMQL
 QEACMRKEKTAVLEHQLEVEETVRQFRGAVGEQLGKMRMFLAALESSLDREAERVRGDAGVALRRELS
 SLNSYLEQLRQMEKVL EEVADKPQTEFLMKFCLVTSRLQKILSESPPPARLDIQLPVISDDFKFQVWKKM
 FRALMPALEELTFDPSSAHP SLVSSGRRVECS DQKAPPAGEDTRQFDKAVAVVAQQLLSQGEHYWEVE
 VGDKPRWALGVMAADASRRGRLHAVPSQGLWLLGLRDGKILEAHVEAKEPRALRTPERPPARIGLYLSFA
 DGVLAIFYDASNPDLTPIFSFHERLPGPVYPIFDVCWHDKGKNAQPLLLVGPEQEQA

SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_001079932

ORF Size: 1434 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

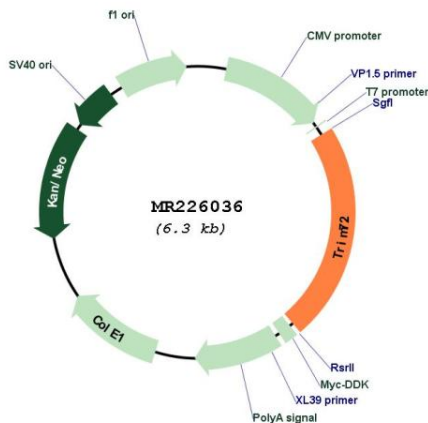
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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.

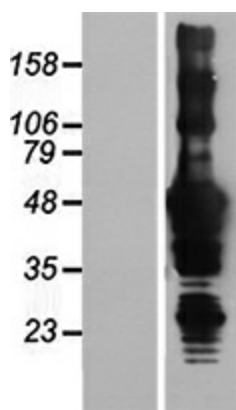
RefSeq: [NM_001079932.3](#), [NP_001073401.1](#)
RefSeq Size: 2472 bp
RefSeq ORF: 1434 bp
Locus ID: 434246
UniProt ID: [Q1XH17](#)
Cytogenetics: 7 F3
MW: 52.8 kDa

Gene Summary: Muscle-specific protein that plays a central role in cell membrane repair by nucleating the assembly of the repair machinery at injury sites. Specifically binds phosphatidylserine. Acts as a sensor of oxidation: upon membrane damage, entry of extracellular oxidative environment results in disulfide bond formation and homooligomerization at the injury site. This oligomerization acts as a nucleation site for recruitment of TRIM72-containing vesicles to the injury site, leading to membrane patch formation. Probably acts upstream of the Ca²⁺-dependent membrane resealing process. Required for transport of DYSF to sites of cell injury during repair patch formation. Regulates membrane budding and exocytosis. May be involved in the regulation of the mobility of KCNB1-containing endocytic vesicles. [UniProtKB/Swiss-Prot Function]

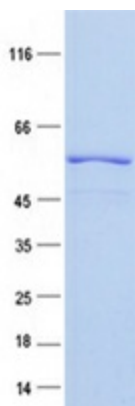
Product images:



Circular map for MR226036



Western validation with an anti-DDK antibody; L: Control HEK293 lysate R: Over-expression lysate



Coomassie blue staining of purified Trim72 protein (Cat# [TP526036]). The protein was produced from HEK293T cells transfected with Trim72 cDNA clone (Cat# MR226036) using MegaTran 2.0 (Cat# [TT210002]).