

## Product datasheet for **MC216581**

### Trim72 (NM\_001079932) Mouse Untagged Clone

#### Product data:

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



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**Fully Sequenced ORF:** >MC216581 representing NM\_001079932  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCGGCTGCACCCGGCCTTCTGCGTCAGGAAGTGTCTGCCACTGTGCTTGCAGCTGTTTCGATGCGC  
 CAGTGACGGCTGAGTGTGGCCACAGTTTCTGCCGTGCCTGCCTGATCCGGGTGGCAGGGAGCCTGCTGC  
 GGACGGCACAGTTGCCTGTCCCTGTTGTGAGGCACCTACACGGCCGAGGCTCTAAGCACTAACCTCCAG  
 TTGTACAGCCTTGTGGAGGGTTTGGCGCAAGTGCCCAAGGCCACTGCGAGGAACACCTGGATCCACTGA  
 GCATCTACTGCGAGCAGGACCGCACACTTGTGTGGTGTGTGCTCGCTCGGTTCTCACCGTGGTCA  
 TCGTCTCTGCTGCCGCTGAAGCCCAAGCACGCCTCAAGACACAGCTTCCACAGCAGAAGATGCAGCTG  
 CAGGAGGCATGCATGCGCAAGGAGAAGACTGTAGCGGTGCTGGAGCATCAGTGGTGGAGGTGGAGGAGA  
 CAGTGCGCCAGTTCGGGGAGCTGTGGGGAGCAGCTGGGGAAGATGCGGATGTTCTTGCTGCCCTAGA  
 AAGTTCTCTGGACCGTGAAGCAGAAAGGGTTCGGGGTGTGCTGGGGTTCCTTGCCTCGGGAGCTGTCA  
 AGCCTGAACTTTACCTAGAGCAACTGAGGCAGATGGAGAAGGTGCTGGAGGAGGTGGCTGACAAGCCAC  
 AGACAGAAATTCCTCATGAAATTCGCTGGTAACCAGCAGGCTGCAGAAGATCCTGTCAGAGTACCACC  
 ACCGGCAAGGCTAGATATCCAGCTGCCTGTCTCAGATGACTTCAAATTCAGGTGTGGAAGAAGATG  
 TTCCGGCTCTGATGCCAGCGCTGGAGGAAGTACTTTTGACCCAGCTCTGCGCACCCGAGCCTGGTGG  
 TGTCTCTCTGGTCGCCGAGTGGAGTGTCTCAGACCAGAAGGCCGCCAGCGGGAGAAGACACCGCTCA  
 GTTCGACAAGGCAGTACGGTGGTGGCGCAGCAGCTGCTGTACAGGGCAGCACTATTGGGAGGTGGAG  
 GTGGGCGACAACCACGCTGGGCCCTGGGAGTGTGGCGGCTGACGCTTCCCGCGTGGCCGCTGCACG  
 CGGTGCCCTCACAGGGGCTGTGGCTGCTGGGTCTGCGCATGGCAAGATCCTGGAGGCGCACGTGGAGGC  
 CAAGGAGCCGCGGCACTGCGCACCCAGAGAGGCCTCCGGCGCGCATTGGCCTTACCTAAGCTTCGCA  
 GATGGCGTCTGGCTTTCTATGATGCGAGCAACCCGACGTAATTACGCCAATTTTTCTTTCCACGAGC  
 GTCTGCCCGGGCCGGTGTACCCATCTTTGACGTGTGCTGGCAGCACAAGGGCAAGAATGCCAGCCCT  
 GCTGCTTGTGGGGCCGGAGCAGGAACAGGCC**TGA**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII  
**ACCN:** NM\_001079932  
**Insert 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](mailto: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](#)

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001079932.3</u> , <u>NP_001073401.1</u>
<b>RefSeq Size:</b>	2472 bp
<b>RefSeq ORF:</b>	1434 bp
<b>Locus ID:</b>	434246
<b>UniProt ID:</b>	<u>Q1XH17</u>
<b>Cytogenetics:</b>	7 F3
<b>Gene Summary:</b>	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 Ca(2+)-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]