

## Product datasheet for **RN210882**

### Trim72 (NM\_001077675) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trim72 (NM_001077675) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Trim72
Synonyms:	RGD1562778
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN210882 representing NM\_001077675  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCGACTGCACCAGGCTTTTGGCCAGGAAGTGTCTTGCCTGTGCTTGCAGCTGTTTCGATGCAC  
 CAGTGACCGCTGAGTGTGGCCACAGTTTCTGCCGTGCCTGCCTGATCCGTGTGGCAGGGAGCCTGCCGA  
 CGATGGCACGGTTGCCTGTCCCTGTTGTGAGGCATCTACTCGGCCACAGGCGCTAAGCACTAACCTCCAG  
 TTGGCACGCCCTTGTGGAGGGTTTGGCACAAGTGCCCAAGGCCACTGCGAGGAACACCTGGATCCACTGA  
 GCATCTACTGCGAGCAGGACCGCACACTTGTGTGGTGTGTGCTCTCTCGGTTACACCGTGGTCA  
 CCGTCTTCTGCCTGCCGAGAAGCCATGCACGTCTCAAGACACAGCTTCCACAACAAGGCCAGCTG  
 CAGGAGGCATGCATGCCAAGGAGAAGAGTGTAGCAGTCTGGAGCATCAGCTGGTGGAGGTGGAGGAGA  
 CCGTGCCTCAGTCCGGGAGCTGTTGGGAGCAGCTGGGAAGATGCGGATGTTCTGGCTGCCCTAGA  
 AAGTTCTTGGACCGTGAAGCAGAAAGGTTTCGAGGTGAGGCAGGGGTTGCCTTGGCGGGGAGCTGTCA  
 AGCCTGAACTCTTACCTGGAGCAACTGAGGCAGATGGAGAAGGTGCTGGAGGAGGTGGCTGACAAGCCAC  
 AGACAGAATTCCTCATGAAATTCGCTGGTGACCAGCAGGCTGCAGAAGATTCTGTGAGAGTACCACC  
 CCCAGCAAGGCTAGATATCCAGCTGCCTGTCTCAGATGACTTCAAATTCAGGTGTGGAAGAAGATG  
 TTCCGGGCTCTGATGCCAGAGTTGGAGAACTGACTTTTGACCCAGCTCTGCGCACCCGAGCCTGGTGG  
 TGTCCGCTCTGGTCCGAGTGGAGTGTCTGGAGCAGAAGGCCGCCAGCAGGAGAAGACACGTGCCA  
 GTTCGACAAGACGGTAGCGGTAGTGGCGAAGCAGCTGTGTACAGGGGGAGCACTACTGGGAGGTGGAG  
 GTGGGCGACAAGCCACGCTGGGCCCTGGTGTGATGGCGGCTGACGCTTCCCGTCTGGCCGCTGCACG  
 CGGTGCCCTCACAGGGGCTGTGGTTGCTCGGCCGCGATGGCAAGATCCTGGAGGCACACGTGGAGGC  
 CAAGGAGCCACGGGCACTGCGCACCCAGAGAGGCCACCAGCGCATTGGCCTTACCTAAGCTTTGCA  
 GATGGCGTCTGACTTTCTATGATGCAAGCAACCCGACGCGTTACACCGCTCTTTTCTTTTCATGAGC  
 GTCTGCCTGGGCCGGTGTACCCATGTTTGACGTGTGCTGGCACGACAAGGGCAAGAATTCTCAGCCGCT  
 GTTGCTCGTGGGCCAGACAGTGAAGCC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001077675

**Insert Size:** 1434 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001077675.1](#), [NP\\_001071143.1](#)

RefSeq Size: 2363 bp

RefSeq ORF: 1434 bp

Locus ID: 365377

UniProt ID: [A0JPQ4](#)

Cytogenetics: 1q37

**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 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 (By similarity).[UniProtKB/Swiss-Prot Function]