

Product datasheet for **RR210882**

Trim72 (NM_001077675) Rat Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>RR210882 representing NM_001077675
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGACTGCACCAGGCTTTTGCGCCAGGAAGTGTCTTGCCCGCTGTGCTTGCAGCTGTTTCGATGCAC
 CAGTGACCGCTGAGTGTGGCCACAGTTTCTGCCGTGCCTGCCTGATCCGTGTGGCAGGGAGCCTGCCGA
 CGATGGCACGGTTGCCTGTCCCTGTTGTAGGCATCTACTCGGCCACAGGCGCTAAGCACTAACCTCCAG
 TTGGCACGCTTGTGGAGGGTTTGGCACAAAGTGCCTCAAGGCCACTGCGAGGAACACCTGGATCCACTGA
 GCATCTACTGCGAGCAGGACCGCACACTTGTGTGGTGTGTGCTCTCTCGTTTACACCGTGGTCA
 CCGTCTTCTGCCTGCCGAGAAGCCATGCACGTCTCAAGACACAGCTTCCACAACAAGGCCAGCTG
 CAGGAGGCATGCATGCCAAGGAGAAGAGTGTAGCAGTCTGGAGCATCAGCTGGTGGAGGTGGAGGAGA
 CCGTGCCTCAGTCCGGGGAGCTGTTGGGAGCAGCTGGGAAGATGCGGATGTTCTGGCTGCCCTAGA
 AAGTTCTTGGACCGTGAAGCAGAAAGGGTTCGAGGTGAGGCAGGGGTTGCCCTGCGGCGGAGCTGCA
 AGCTGAACCTTACCTGGAGCAACTGAGGCAGATGGAGAAGGTGCTGGAGGAGTGGCTGACAAGCCAC
 AGACAGAAATTCCTCATGAAATTCGCTGGTGACCAGCAGGCTGCAGAAGATTCTGTGAGAGTACCACC
 CCCAGCAAGGCTAGATATCCAGCTGCCTGTCTCAGATGACTTCAAATTCAGGTGTGGAAGAAGATG
 TTCCGGGCTCTGATGCCAGAGTTGGAGAACTGACTTTTGACCCAGCTCTGCGCACCCGAGCCTGGTGG
 TGTCCGCTCTGGTGCAGAGTGGAGTGTCTGGAGCAGAAGGCGCCGAGCAGGAGAAGACACGTGCCA
 GTTCGACAAGACGGTAGCGGTAGTGGCAAGCAGCTGTGTCACAGGGGAGCACTACTGGGAGTGGAG
 GTGGGCGACAAGCCACGCTGGGCCCTGGTGTGATGGCGGCTGACGCTTCCCGTCTGGCCGCTGCACG
 CGGTGCCCTCACAGGGGCTGTGGTGTCTGGCCTGCGGATGGCAAGATCCTGGAGGCACACGTGGAGG
 CAAGGAGCCACGGGCACTGCGCACCCAGAGAGGCCACAGCGCATTGGCCTTACCTAAGCTTTGCA
 GATGGCGTCTGACTTTCTATGATGCAAGCAACCCGACGCGTTACACCGCTCTTTTCTTTTCATGAGC
 GTCTGCCTGGGCCGTGTACCCATGTTTGACGTGTGCTGGCACGACAAGGGCAAGAATTCTCAGCCGT
 GTTGCTCGTGGGGCCAGACAGTGAAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR210882 representing NM_001077675
 Red=Cloning site Green=Tags(s)

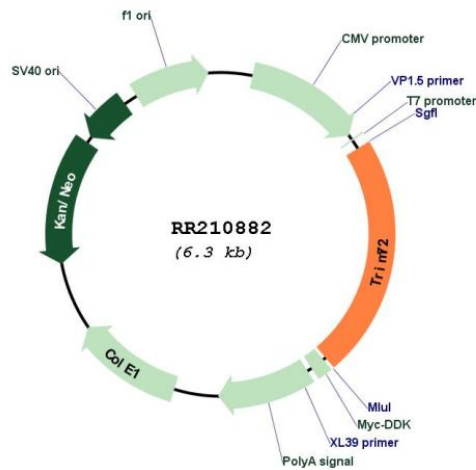
MSTAPGLLRQELSCPLCLQLFDAPVTAECGHSFCRACLIRVAGEPADDGTVACPCQASTRPQALSTNLQ
 LARLVEGLAQVPQGHCEEHLDPISIYCEQDRTL VCGVCASLGSHRGHRLPAAEAHARLKTQLPQKAQL
 QEACMRKEKSVAVLEHQLVEVEETVVRQFRGAVGEQLGKMRMFLAALESSLDREAERVRGEAGVALRRELS
 SLNSYLEQLRQMEKVLVEVADKPQTEFLMKFCLVTSRLQKILSESPPARLDIQLPVISSDFKFQVWKKM
 FRALMPELEELTFDPSSAHPVLSVVSASGRRVECSEKAPPAGEDTCQFDKTVAVVAKQLLSQGEHYWEVE
 VGDKPRWALGVMAADASRRGRHLHAVPSQGLWLLGLRDGKILEAHVEAKEPRALRTPERPPARIGLYLSFA
 DGVLTIFYDASNTDALTPLFSFHERLPGPVYPMFDVWCWHDKGKNSQPLLLVGPDSEQA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:

ACCN:

NM_001077675

ORF Size:

1431 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_001077675.1](#), [NP_001071143.1](#)

RefSeq Size: 2363 bp

RefSeq ORF: 1434 bp

Locus ID: 365377

UniProt ID: [A0JPQ4](#)

Cytogenetics: 1q37

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 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]