

Product datasheet for **RC218023**

TRIM72 (NM_001008274) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRIM72 (NM_001008274) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TRIM72
Synonyms:	MG53
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC218023 representing NM_001008274
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGGTGCGCCCGCCTCCTGCACCAGGAGCTGTCTGCCCGCTGTGCCTGCAGCTGTTTCGACGCGC
 CCGTGACAGCCGAGTGCGGCCACAGTTTCTGCCCGCCTGCCTAGGCCGGTGGCCGGGAGCCGCGGC
 GGATGGCACCGTTCTCTGCCCTGCTGCCAGGCCCCACGCGCCGAGGCACTCAGACCAACCTGCAG
 CTGGCGCGCTGGTGGAGGGGCTGGCCAGGTGCCGAGGGCCACTGCGAGGAGCACCTGGACCCGCTGA
 GCATCTACTGCGAGCAGGACCGCGCTGGTGTGCGGAGTGTGCGCCTACTCGGCTCGCACCGCGGTCA
 TCGCCTCCTGCCTGCCGCCGAGGCCACGCACGCCTCAAGACACAGCTGCCACAGCAGAACTGCAGCTG
 CAGGAGGCATGCATGCGTAAGGAGAAGAGTGTGGCTGTGCTGGAGCATCAGCTGGTGGAGGTGGAGGAGA
 CAGTGCCTCAGTCCGGGGGGCCGTGGGGGAGCAGCTGGGCAAGATGCGGGTGTCTGGCTGCACTGGA
 GGGCTCCTTGGACCGCGAGGCAGAGCGTGTACGGGGTGAAGCAGGGGTGCGCTTGCGCCGGGAGCTGGGG
 AGCCTGAACTCTTACCTGGAGCAGCTGCCGCAGATGGAGAAGGTCTGGAGGAGTGGCGGACAAGCCGC
 AGACTGAGTTCCTCATGAAATACTGCCTGGTGACCAGCAGGCTGCAGAAGATCCTGGCAGAGTCTCCCC
 ACCCGCCCGTCTGGACATCCAGCTGCCAATTATCTCAGATGACTTCAAATTCAGGTGTGGAGGAAGATG
 TTCCGGGCTCTGATGCCAGCGCTGGAGGAGTGACCTTTGACCCGAGCTCTGCGCACCCGAGCCTGGTGG
 TGTCTTCTCTGGCCCGCGCTGGAGTGTCTGGAGCAGAAGGCGCCGCGCCGGGGAGGACCCGCGCCA
 GTTCGACAAGGCGGTGGCGGTGGTGGCGCACAGCAGCTCTCCGAGGGCGAGCACTACTGGGAGGTGGAT
 GTTGGCGACAAGCCGCTGGCGCTGGCGTGTGCGCGCCGAGGCCCCCGCCGCGGGCGCTGCACG
 CGTGGCCTCGCAGGGCCTGTGGCTGTGGGGTGCAGGAGGCAAGATCCTGGAGGCACACGTTGGAGGC
 CAAGGAGCCGCGCTCTGCGCAGCCCCGAGAGCGGCCACGCGCATTGGCCTTTACCTGAGCTTCGGC
 GACGGCGTCTCTCTTCTACGATGCCAGCGACCGGACGCGCTCGTGCCGCTTTTTGCCTTCCACGAGC
 GCCTGCCAGGCCGTGTACCCCTTCTTCGACGTGTGCTGGCACGACAAGGGCAAGAATGCCAGCCGCT
 GCTGCTCGTGGTCCGAAGGCGCCGAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC218023 representing NM_001008274
 Red=Cloning site Green=Tags(s)

MSAAPGLLHQELSCPLCLQLFDAPVTAECGHSFCRACLGRVAGEPAADGTVLCPCCQAPTRPQALSTNLQ
 LARLVEGLAQVPQGHCEEHLDP LSIYCEQDRALVCGVCASLGSHRGHRLLPAAEAHARLKTQLPQQLQL
 QEACMRKEKSVAVLEHQLVEVEETVVRQFRGAVGEQLGKMRVFLAALEGLDREAERVRGEAGVALRRELG
 SLNSYLEQLRQMEKVLVEVADKPQTEFLMKYCLVTSRLQKILAESPPPARLDIQLPIISDDFKFQVWRKM
 FRALMPALEELTFDPSSAHPSLVVS SGRRVECSEQKAPPAGEDPRQFDKAVAVVAHQQLSEGEHYWEVD
 VGDKPRWALGVIAAEAPRRGR LHAVPSQGLWLLGLREGKILEAHVEAKEPRALRSPERRPRTRIGLYLSFG
 DGVLSFYDASDADALVPLFAFHERLPRVYVFFDVCWHDKGKNAQPLLLVGPEGAEA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6816_a02.zip

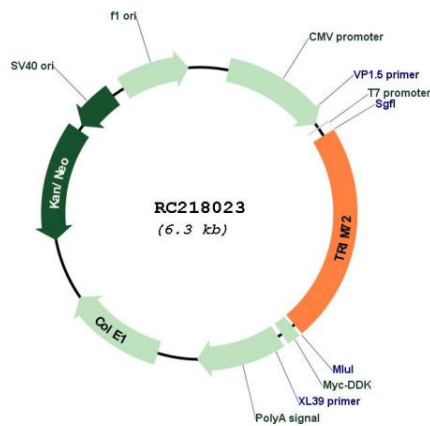
Restriction Sites:

Sgfl-Mlul

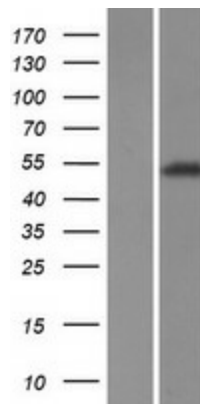
MW: 52.6 kDa

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]

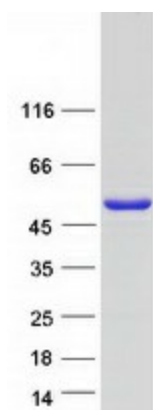
Product images:



Circular map for RC218023



Western blot validation of overexpression lysate (Cat# [LY423413]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218023 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TRIM72 protein (Cat# [TP318023]). The protein was produced from HEK293T cells transfected with TRIM72 cDNA clone (Cat# RC218023) using MegaTran 2.0 (Cat# [TT210002]).