

Product datasheet for **SC301279**

TRIM72 (NM_001008274) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRIM72 (NM_001008274) Human Untagged Clone
Tag:	Tag Free
Symbol:	TRIM72
Synonyms:	MG53
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001008274, the custom clone sequence may differ by one or more nucleotides

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ATGTCGGTGTCGCCCGGCTCCTGCACCAGGAGCTGTCCTGCCCGCTGTGCCTGCAGCTGTTTCGACGCGC
CCGTGACAGCCGAGTGCAGCCACAGTTTCTGCCGCGCTGCCTAGGCCGCGTGGCCGGGAGCCGGCGGC
GGATGGCACCGTTCTCTGCCCTGCTGCCAGGCCCCACGCGGCCGAGGCACTCAGCACCAACCTGCAG
CTGGCGCGCTGGTGGAGGGGCTGGCCAGGTGCCGAGGGCCACTGCGAGGAGCACCTGGACCCGCTGA
GCATCTACTGCGAGCAGGACCGCGCTGGTGTGCGGAGTGTGCGCTCACTCGGCTCGCACCGCGGTCA
TCGCTCCTGCCTGCCCGGAGGCCACGCACGCCTCAAGACACAGCTGCCACAGCAGAACTGCAGCTG
CAGGAGGCATGCATGCGCAAGGAGAAGAGTGTGGCTGTGCTGGAGCATCAGCTGGTGGAGGTGGAGGAGA
CAGTGCCTCAGTTCCGGGGGGCGTGGGGGAGCAGCTGGGCAAGATGCGGGTGTTCCTGGCTGCACTGGA
GGGCTCCTTGACCGCGAGGCGAGAGCTGTACGGGTGAGGCAGGGGTGCCCTTGCGCCGGGAGCTGGGG
AGCCTGAACTCTTACCTGGAGCAGCTGCGGCAGATGGAGAAGGTCTGGAGGAGGTGGCGGACAAGCCGC
AGACTGAGTTCCTCATGAAATACTGCCTGGTGACCAGCAGGCTGCAGAAGATCCTGGCAGAGTCTCCCC
ACCCGCCCGTCTGGACATCCAGCTGCCAATTATCTCAGATGACTTCAAATTCAGGTGTGGAGGAAGATG
TTCCGGGCTCTGATGCCAGCGCTGGAGGAGCTGACCTTTGACCCGAGCTCTGCGCACCCGAGCCTGGTGG
TGTTCTTCTCTGGCCCGCGTGGAGTGTCTCGGAGCAGAAGGCCCGCCCGGGGAGGACCCGCGCCA
GTTGCGACAAGGCGGTGGCGGTGGTGGCGCACAGCAGCTCTCCGAGGGCAGCACTACTGGGAGGTGGAT
GTTGGCGACAAGCCGCGCTGGGCGTGGGCGTGATCGCGGCCGAGGCCCCCGCCGCGGGGCGCTGCACG
CGGTGCCCTCGCAGGGCCTGTGGCTGCTGGGGCTGCGCGAGGGCAAGATCCTGGAGGCACACGTGGAGGC
CAAGGAGCCGCGCTCTGCGCAGCCCCGAGAGGCGGCCACGCGCATTGGCCTTACCTGAGCTTCGCGC
GACGGCGTCTCTCTTACGATGCCAGCGACGCCGACGCGCTCGTGCCGCTTTTTGCCTTCCACGAGC
GCCTGCCAGGCCGTGTACCCCTTCTTCGACGTGTGCTGGCACGACAAGGGCAAGAATGCCAGCCGCT
GCTGCTCGTGGTCCCGAAGGCGCCGAGGCTGA

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Restriction Sites:	Please inquire
ACCN:	NM_001008274
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).
OTI Annotation:	There is 1 nucleotide difference between the OriGene clone and the NCBI reference ORF. OriGene considers these to be polymorphisms and to reflect the natural differences between individuals. These result in the substitution of 1 amino acids.
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:	<ol style="list-style-type: none"> 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:	<u>NM_001008274.1</u> , <u>NP_001008275.1</u>
RefSeq Size:	2098 bp
RefSeq ORF:	1434 bp
Locus ID:	493829
UniProt ID:	<u>Q6ZMU5</u>
Cytogenetics:	16p11.2
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]