

Product datasheet for SC119129

TRIM23 (NM_001656) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: TRIM23 (NM_001656) Human Untagged Clone
Tag: Tag Free
Symbol: TRIM23
Synonyms: ARD1; ARFD1; RNF46
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001656 edited
GAATTCGGCAGCAGGCTGAAGGCTGTTTCTGTGGCGCTTCCCCTGCGAGGATGGCTACCC
TGGTTGTAACAAGCTCGGAGCGGGAGTAGACAGTGGCCCGAGGCGAGCCGGGGACAG
CTGTAGTGAAGGTGCTAGAGTGTGGAGTTTGTGAAGATGTCTTTTCTTTGCAAGGAGACA
AAGTTCCCGTCTTTTGCTTTGTGGCCATACCGTCTGTCTGACTGTCTCACTCGCTAC
CTCTTCATGGAAGAGCAATCCGTTGCCATTTGATCGACAAGTAACAGACCTAGGTGATT
CAGGTGTCTGGGATTGAAAAAATTTTGCTTTATTGGAGCTTTTGAACGACTGCAGA
ATGGGCCATTGGTCAGTATGGAGCTGCAGAAGAATCCATTGGGATATCTGGAGAGACA
TCATTCGTTGTGATGAAGATGAAGCTCACCTTGCCTCTGTATATTGCACTGTGTGTGCAA
CTCATTGTGCTCTGAGTGTCTCAAGTACTCATTCTACAAAGACATTAGCAAAGCACA
GGCGAGTTCCTCTAGCTGATAAACCTCATGAGAAAATATGTGCTCTCAGCACCAGGTGC
ATGCCATTGAGTTTGTGCTTGAAGAAGGTTGTCAAACCTAGCCCACTCATGTGCTGTG
TCTGCAAAGAATATGAAAACACAGGGTCACAAGCATTCAAGTATTGGAACCAGAAAGCTA
ATCAGATCCGAGCATCAATTTTAGATATGGCTCACTGCATACGGACCTTACAGAGGAAA
TCTCAGATTATCCAGAAAATTAGTTGGAATTGTGCAGCACATTGAAGGAGGAGAAACAAA
TCGTGGAAGATGGAATTGGAATGGCTCACACAGAACATGTACCAGGACTGCAGAGAATG
CCCGGTCATGTATTCGAGCTTATTTTTATGATCTACATGAAACTCTGTGTGCAAGAAG
AAATGGCTCTAAGTGTGTTGATGCTCATGTTGCGTAAAAAATTGATTTGGCTCAGGCAGC
ACAAGAAGATATGACTATTTTGTGTCAGAGGTTTCTGCAGCCTGCCTCCACTGTGAAA
AGACTTTGCAGCAGGATGATTGTAGAGTTGCTTGGCAAAACAGGAAATTACAAGGTTAC
TGAAACATTGCAGAAACAGCAGCAGCTTTACAGAAGTTGCAGATCACATTCAAGTTGG
ATGCCAGCATCCCTGTCACCTTTTACAAAGGATAATCGAGTTCACATTGGACCAAAAATGG
AAATTCGGGTCGTTACGTTAGGATTGGATGGTGTGAAAAACTACTATCTTGTTTAAGT
TAAACAGGATGAATTCATGCAGCCATTCCAACAATTGGTTTTAACGTGAAACTGTAG
AATATAAAAATCTAAAATCACTATTTGGGATGTAGGTGAAAAACACAAATTAAGACCAT
TGTGAAACATTATTACCTCAACTCAAGCTGTTGTGTTTGTGTTAGATAGCAGTCATA
GAGACAGAATTAGTGAAGCACACAGCGAACTTGCAAAGTTGTTAACGGAAAAAGAACTCC



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GAGATGCTCTGCTCCTGATTTTTGCTAACAAACAGGATGTTGCTGGAGCACTGTCTAGTAG
AAGAAATCACTGAACACTCAGTCTCCATAAATTATGCTGTGGCCGTAGCTGGTATATTC
AGGGCTGTGATGCTCGAAGTGGTATGGGACTGTATGAAGGGTTGGACTGGCTCTCACGGC
AACTTGTAGCTGCTGGAGTATTGGATGTTGCTTGAATTTAAAGGCAGCAGTTGTTTGAAG
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ATGGTAATTTAGGATGCATATATATATATATATATATAAAGGAATCTTGATTG
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TTGGCAGCATTTAGTAGTAAAAAGTACAGTTGCTTAATGAAATAGAATCCAAACTACATA
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GCATTTTGATAAAAACACAATGAGGGAGTAAAATGTTACCCAATTAGGCTTGTGAGTTA
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TGTTTTCCAAAAAATAGTGCATTTATTTTGACAAATAAACTTAAAGGCTGTTTATGAGAAG
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TAATGTTCTGATACATTAGGATGAAGTTAAATCTTAAATCTTATTAGTTGAATTGTTGA
AGGACAGTGATGCTGGTAAACAAGATGTGACTTTTTGGTAGCACTGTTGTGGTTCTTCT
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ATTAATTTATTTAATTTGACTGATTTCAATAACTGTGAAAAAATAAAAAAGGTGTTGA
TTGCTTGTGAGAAAAAAAATAAAAAAAAATAAAAAACTCGAC

**5' Read Nucleotide
Sequence:**

>OriGene 5' read for NM_001656 unedited
AATACGACTTCACTATAGGGCGGCCGATTTCGGCACGAGGCTGAAGGCTGTTTCTGTGG
CGCTTCCCCTGCGAGGATGGCTACCCTGGTTGTAACAAGCTCGGAGCGGGAGTAGACAG
TGGCCGCGAGGCGAGCCGGGGACAGCTGTAGTGAAGGTGCTAGAGTGTGGAGTTTGTGA
AGATGTCTTTTCTTTGCAAGGAGACAAAGTTCCCGTCTTTTGTCTTTGTGGCCATACCGT
CTGTCATGACTGTCTCACTCGCCTACCTCTTCATGGAAGAGCAATCCGTTGCCATTTGA
TCGACAAGTAACAGACCTAGGTGATTGAGTGTCTGGGGATTGAAAAAATTTTGTCTT
ATTGGAGCTTTTGAACGACTGCAGAATGGGCCTATTGGTCAAGTATGGAGCTGCAGAAGA
ATCCATTGGGATATCTGGAGAGAGCATCATTCTGTTGATGAAGATGAAGCTCACCTTGC
CTCTGTATATTGCACTGTGTGCAACTCATTGTTGCTCTGAGTGTCTCAAGTACTCA
TTCTACAAAGACATTAGCAAAGCACAGGGCGAGTTCTCTAGCTGATAAACCTCATGAGA
AAACTATGTGCTCTCAGCACCAGGTGCATGCCATTGAGTTTGTGTGCTTGAAGAAAGTTG
TCAACTAGCCCACTCATGTGCTGTCTGNCAAGATATGGAACACCCANNGTCAACAAGC
ATTCAGTATTGGAACAGAAAGCTATCAGATCCGAGCATCNATTTTAGATATGGCTCACT
GGCATAACGGACCTTACAGAGAAAATCTCAGATTTTTCAGAAAATTAGNTGGAATTNNGG
CAGCACATTGAAGNAGAGAAAACATCGTGAAGAAAGGAATTGGGATGGGCTACACAAAC
CATGTCCCAGGACTGCANAAAATGGCCGTCATGNATTCC

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_001656 unedited AGCTCTGGACCGCGCCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTT TCTAACAAAGCAATACAACACCTTTTTTATTTTTCACAGTTATTGAAATCAGTCAAATATT AAATAATTTAATTCGGAAGTATTATTTATGCACACAACTACACCTGTAACAGCATGACC TTTTACCTGGAAAAATAAAGGATGAAATATTACATTTATTTTACATATTGCCATAA TACTGATAGGCTTTTTTTTAAATGCTTTGTTTTCTAAAAGTGAATTGTTTTTAAACAAA AATAGATTTGAAAAGAATGAACCACAACAGTGTACCAAAAAGTCACATCTTGTTACCAG ACATCACTGTCCTTACAACAATTCAACTAATAAGATTTAAGATTTAACTTCATCCTAATG TATCAGAACATTAATAAAAAAAAAAGTCTCAATGTACCTATTTAAATAAATCGGGCTTCCAT AATAATATTCTTTAAAAATGAAAAACAGTAAAGAGCACACATTTTATTTACTCACAACA CTGAATAATTAATGTAACCTTTTTGAATTTTTTTTTCTTTAGACATTTTCTCTAGAG TAACCTTTCAAGGCTTCTCATGAACAGCCTTAAGTTTTATTGTCAAAAATAAATGCCACT TATTTTGGGAAACAGTTTGAAGTAAGTAATAAGCATTGCCACTGTACTTACAACCTCTT TGGAAGTTCGCTTTTTATTTAGGCCACTACCTTTTAAAAAGCCAACCCTGGTCTGCGTT ACTTACTACATTTTACCTATAGCCATCTCCACAAGGGATGCATATTATATTAGAAAAGAA TATATTTTACATTGTTGAAAAATAAAGGACAATTTAAAGCTTTGACTAGGTCAGCCCTG GAAATGCTCTTTATAAATTAGATCCATACTCCCAAGTTTATTAT
Restriction Sites:	NotI-NotI
ACCN:	NM_001656
Insert Size:	3370 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:	<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_001656.3</u> , <u>NP_001647.1</u>
RefSeq Size:	3914 bp
RefSeq ORF:	1725 bp
Locus ID:	373
UniProt ID:	<u>P36406</u>
Cytogenetics:	5q12.3
Domains:	zf-B_box, RING, RAB, BBC, SAR, ARF, arf
Protein Families:	Druggable Genome

Gene Summary:

The protein encoded by this gene is a member of the tripartite motif (TRIM) family. The TRIM motif includes three zinc-binding domains, a RING, a B-box type 1 and a B-box type 2, and a coiled-coil region. This protein is also a member of the ADP ribosylation factor family of guanine nucleotide-binding family of proteins. Its carboxy terminus contains an ADP-ribosylation factor domain and a guanine nucleotide binding site, while the amino terminus contains a GTPase activating protein domain which acts on the guanine nucleotide binding site. The protein localizes to lysosomes and the Golgi apparatus. It plays a role in the formation of intracellular transport vesicles, their movement from one compartment to another, and phospholipase D activation. Three alternatively spliced transcript variants for this gene have been described. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (alpha) encodes the longest isoform. It has a unique C-terminus compared to isoforms beta and gamma of this protein.