

Product datasheet for **SC118185**

TRIM21 (NM_003141) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRIM21 (NM_003141) Human Untagged Clone
Tag:	Tag Free
Symbol:	TRIM21
Synonyms:	RNF81; Ro/SSA; RO52; SSA; SSA1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_003141, the custom clone sequence may differ by one or more nucleotides

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ATGGCTTCAGCAGCAGCCTTGACAATGATGTGGGAGGAGTCCACATGCCCTATCTGCCTGGACCCCTTCG
TGGAGCCTGTGAGCATCGAGTGTGGCCACAGCTTCTGCCAGGAATGCATCTCAGGTTGGGAAAGGTGG
GGGCAGCGTCTGTCTGTGTGCCGCGAGCGCTTCTGCTCAAGAATCTCCGGCCCAATCGACAGCTAGCC
AACATGGTGAACAACCTTAAAGAAATCAGCCAGGAGGCCAGAGAGGGCACACAGGGGAACGGTGTGCAG
TGCATGGAGAGAGACTTCACCTGTTCTGTGAGAAAGATGGGAAGGCCCTTTGCTGGGTATGTGCCAGTC
TCGAAACACCGTGACCACGCCATGGTCCCTCTTGAGGAGGCTGCACAGGAGTACCAGGAGAAGCTCCAG
GTGGCATTAGGGGAAGTGAAGAAGAAAGCAGGAGTTGGCTGAGAAGTTGGAAGTGGAAATTGCAATAAAGA
GAGCAGACTGGAAGAAAACAGTGGAAACACAGAAATCTAGGATTCACGCAGAGTTTGTGCAGCAAAAAA
CTTCTGGTTGAAGAAGAACAGAGGCAGCTGCAGGAGCTGGAGAAGGATGAGAGGGAGCAGCTGAGAATC
CTGGGGGAGAAAGAGGCCAAGCTGGCCCAGCAGAGCCAGGCCCTACAGGAGCTCATCTCAGAGCTAGATC
GAAGGTGCCACAGCTCAGCACTGGAAGTCTGCAGGAGGTGATAATTGCCTGGAAGGAGTGAGTCCTG
GAACCTGAAGGACCTGGATATTACCTCTCCAGAACTCAGGAGTGTGTGCCATGTGCCAGGGCTGAAGAAG
ATGCTGAGGACATGTGCAGTCCACATCACTCTGGATCCAGACACAGCCAAATCCGTGGCTGATACTTTCAG
AAGATCGGAGACAAGTGAGGCTTGGAGACACCCAGCAGAGCATACTGGAATGAAGAGAGATTTGATAG
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AGAGTGGCTTCTGGACAATTTGGTTGTGGAACAAACAAAAATATGAGGCTGGCACCTACCCCCAGACTCC
CCTCCACCTTCAGGTGCCTCCATGCCAAGTTGGGATTTTCTGGACTATGAGGCTGGCATGGTCTCCTTC
TACAACATCACTGACCATGGCTCCCTCATCTACTCCTTCTCTGAATGTGCCTTTACAGGACCTCTGCGGC
CCTTCTCAGTCTGGTTCAATGATGGAGGAAAAACACAGCCCTCTAACCTCTGTCCACTGAATAT
TGGATCACAAGGATCCACTGACTATTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003141 unedited
 CGCCCCCAGAANNAACACACCACCCNTCCGCGGTTTCATAATTGTATAAGACTCACTAT
 AGGCGGCCCGCAAATTCGCACGAGGTCCCTGTAAAGCCAAACCCCTAAAGTCTCCACA
 CTGCTGTTTAAACGGCACACTTGACAATGGCTTCAGCAGCACGCTTGACAATGATGTGGGA
 GGAGGTACATGCCCTATCTGCCTGGACCCCTTCGTGGAGCCTGTGAGCATCGAGTGTGG
 CCACAGCTTCTGCCAGGAATGCATCTCTCAGGTTGGGAAAGGTGGGGGCAGCGTCTGTCC
 TGTGTGCCCGCAGCGCTTTCTGCTCAAGAATCTCCGGCCCAATCGACAGCTAGCCAACT
 GGTGAACAACCTTAAAGAAATCAGCCAGGAGGCCAGAGAGGGCACACAGGGGAACGGTG
 TGCAGTGCATGGAGAGACTTACCTGTTCTGTGAGAAAAGATGGGAAGGCCCTTGTCTG
 GGTATGTGCCAGTCTCGGAAACACCGTGACCACGCCATGGTCCCTCTTGAGGAGGCTGC
 ACAGGAGTACCAGGAGAAGCTCCAGGTGGCATTAGGGAACTGAGAAGAAAGCAGGAGTT
 GGCTGAGAAGTTGGAAGTGAAATTGCAATAAAGAGAGCAGACTGGAAGAAAACAGTGGA
 AACACAGAAATCTAGGATTCACGCAGAGTTTGTGCAGCANAAAACTTCTGTTTGAAGA
 AGAACCAGAGCAGCTGCANGAAGTGGAGAAGGATGACAGGGAGCACCTGAGAATCCTGCG
 GGAGAAAGAGCCAGCTGGCCCAGCAGAGCCAGCCCTACAGGAGCTCATCTCAGAGCTA
 GATCCGAAGTGCCACAGCTCAACTGGAAGTGTGCAGGAGTGATTATTGCTCTGGAAG
 GAGTGGTCTGCAAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003141 unedited
 GGGAAACTTAGGAACCGCGCCGCAATCTANGATCGAGTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTAAATTTTATTTTTATTTTTAGGAAGCCCTTTTGCAAACATACAAG
 ATATAATAGAGATCTACCAAAGACGACATCCTAGAGATGGAGAGGAGAAAAAAAACCT
 TAAGTCCATAAAGAAGGCAGAAACATGTTTTTGGTTGATCAAGATGAGTTTGGGCCAAA
 TATAAGGAGGCTGCTTCACTGGAGGGAATCACAAAGCCATCTGGGCAGGAATGTTGATG
 GTGAAGTGACTTCCCTGCTAAAGCTCGCTTGTGGGATCCGGATGCCTCTGCAGAGACAA
 AGGTGGTTCAGAGTTCATGGGAAAAGAGGCAGGGTTTGTGGCTGAGAAGCGGTGCCAGT
 GGGGAGAGTGGCAGTGTCCAGAGAAAGCCATCAATAGTCAGTGGATCCTTGTGATCCAAT
 ATTCAGTGGACAGAGGGTTAGAGGGGCTGTGTTTTTCTCCATCATTGAAACCAGGACT
 GAAGAAGGGCCGAGAGGTCCTGTAAAGGCACATTCAGAGAAGGAGTAGATGAGGGAGCC
 ATGGTCAGTGATGTTGTAGAAGGAGACCATGCCAGCCTCATAGTCCAGGGAAATCCCAAC
 CTGGCCGGGGAGGCCCGGAGGTGGGGGGGAATCCGGGGGTAAGTGCACNCCCCAAGTT
 TTGTGGGGCCACAGCCAANNTGCCACCAACCACCCTGGACAACAGCAAAGGGGAGC
 NNNCGGCACTGAGGCCGNNAAACTGAGGNNNAAGGGGCGCTTTGCCGGTGNNAAGC
 AGGTGCGGGNNNTAGCACAGAGGCAAATGGGCGGNNCTCAGCGGACCAGGGAAAAC
 GAGAA

Restriction Sites:

ECoRI-NOT

ACCN:

NM_003141

Insert Size:

2000 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_003141.3](#), [NP_003132.2](#)

RefSeq Size: 1946 bp

RefSeq ORF: 1428 bp

Locus ID: 6737

UniProt ID: [P19474](#)

Cytogenetics: 11p15.4

Domains: zf-B_box, RING, SPRY, PRY

Protein Families: Druggable Genome

Protein Pathways: Systemic lupus erythematosus

Gene Summary: This gene encodes 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. The encoded protein is part of the RoSSA ribonucleoprotein, which includes a single polypeptide and one of four small RNA molecules. The RoSSA particle localizes to both the cytoplasm and the nucleus. RoSSA interacts with autoantigens in patients with Sjogren syndrome and systemic lupus erythematosus. Alternatively spliced transcript variants for this gene have been described but the full-length nature of only one has been determined. [provided by RefSeq, Jul 2008]