

Product datasheet for **RG202088**

TRIM21 (NM_003141) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | TRIM21 (NM_003141) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | TRIM21 |
| Synonyms: | RNF81; Ro/SSA; RO52; SSA; SSA1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG202088 representing NM_003141
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTTCAGCAGCAGCTTGCACATGATGTTGGGAGGAGTCCACATGCCCTATCTGCCTGGACCCCTTCG
 TGGAGCCTGTGAGCATCGAGTGTGGCCACAGCTTCTGCCAGGAATGCATCTCTCAGTTGGGAAAGGTGG
 GGGCAGCGTCTGTCTGTGTGCCGGCAGCGCTTCTGCTCAAGAATCTCCGGCCCAATCGACAGCTAGCC
 AACATGGTGAACAACCTTAAAGAAATCAGCCAGGAGGCCAGAGAGGGCACACAGGGGAACGGTGTGCAG
 TGCATGGAGAGAGACTTCACCTGTTCTGTGAGAAAGATGGGAAGGCCCTTGTGGGTATGTGCCAGTC
 TCGAAACACCGTGACCACGCCATGGTCCCTCTTGAGGAGGCTGCACAGGAGTACCAGGAGAAGCTCCAG
 GTGGCATTAGGGAACTGAGAAGAAAGCAGGAGTTGGCTGAGAAGTTGGAAGTGGAAATTGCAATAAAGA
 GAGCAGACTGGAAGAAAACAGTGGAAACACAGAAATCTAGGATTCACGCAGAGTTTGTGCAGCAAAAAA
 CTTCTGGTTGAAGAAGAACAGAGGCAGCTGCAGGAGCTGGAGAAGGATGAGAGGGAGCAGCTGAGAATC
 CTGGGGGAGAAAGAGGCCAAGCTGGCCAGCAGAGCCAGGCCCTACAGGAGCTCATCTCAGAGCTAGATC
 GAAGGTGCCACAGCTCAGCACTGGAAGTCTGCAGGAGGTGATAATTGTCTGGAAGGAGTGAGTCTCTG
 GAACCTGAAGGACCTGGATATTACCTCTCCAGAACTCAGGAGTGTGTGCCATGTGCCAGGGCTGAAGAAG
 ATGCTGAGGACATGTGCAGTCCACATCACTCTGGATCCAGACACAGCCAAATCCGTGGCTGATACTTTCAG
 AAGATCGGAGACAAGTGAAGGCTTGGAGACACCCAGCAGAGCATACCTGGAATGAAGAGAGATTTGATAG
 TTATCCTATGGTCTGGTGGCCAGCACTTCTACTCTGGAACAACTTACTGGGAGGTAGATGTGCAGGA
 AAGGAGCCTGGACCTGGTGTCTGCAGAGACTCTGTGCGCAGGAAGGGGCACCTTTTGTCTAGTTCCA
 AGAGTGGCTTCTGGACAATTTGGTTGTGGAACAACAAAAATATGAGGCTGGCACCTACCCCCAGACTCC
 CCTCCACCTTCAGGTGCCTCCATGCCAAGTTGGGATTTTCTGGACTATGAGGCTGGCATGGTCTCCTTC
 TACAACATCACTGACCATGGCTCCCTCATCTACTCTCTGAATGTGCCTTTACAGGACCTCTGCGGC
 CCTTCTCAGTCTGGTTTCAATGATGGAGAAAAACACAGCCCTCTAACCTCTGTCCACTGAATAT
 TGGATCACAAGGATCCACTGACTAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG202088 representing NM_003141
 Red=Cloning site Green=Tags(s)

MASAARLTMMWEEVTCPICLDPFVEPVSIIEGHSFCQECISQVGKGGSVCPVCRQRFLLNLRPNRQLA
 NMVNNLKEISQEAAREGTQGERCAVHGERLHLFCEKDGKALCWVCAQSRKHRDHAMVPLEEAAQEYQEKLQ
 VALGELRRKQELAEKLEVEIAIKRADWKTIVETQKSRIHAEFVQQKNFLVEEEQRQLQELEKDEREQLRI
 LGEKEAKLAQQSQALQELISELDRRCHSSALELLQEVIIIVLERSESWNLKDLITSPELRSVCHVPLKK
 MLRTCAVHITLDPDTANPWLILSEDRRQVRLGDTQQSIPGNEERFDSYPMVLGAQHFHSGKHYWEVDVTG
 KEAWDLGVCRDVRRKGFHLLSSKSGFWIWLWNKQKYEAGTYPQTPHLQVPPCQVGFIFLDYEAGMVSF
 YNITDHGSLIYSFSECAFTGPLRPFSPGFNDGGKNTAPLTLCLPLNIGSQGSTDY

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_003141

ORF Size: 1425 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

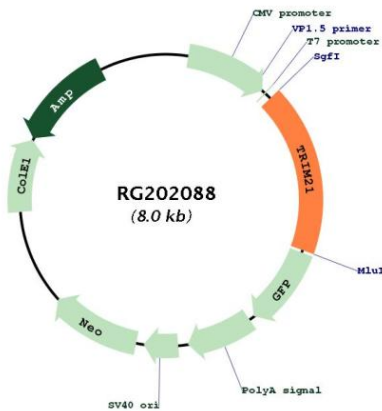
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_003141.4](#)
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]

Product images:



Circular map for RG202088