

Product datasheet for **RC207431**

TRIM22 (NM_006074) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRIM22 (NM_006074) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TRIM22
Synonyms:	GPSTAF50; RNF94; STAF50
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC207431 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATTCTCAGTAAAGGTAGACATAGAGAAGGAGGTGACCTGCCCATCTGCCTGGAGCTCTGACAG
 AACCTCTGAGCCTAGATTGTGGCCACAGCTTCTGCCAAGCCTGCATCACTGCAAAGATCAAGGAGTCAGT
 GATCATCTCAAGAGGGGAAAGCAGCTGTCTGTGTGTCAGACCAGATTCCAGCCTGGGAACCTCCGACCT
 AATCGGCATCTGGCCAACATAGTTGAGAGAGTCAAAGAGGTCAAGATGAGCCACAGGAGGGGCAGAAGA
 GAGATGTCTGTGAGCACCATGGAAAAAACTCCAGATCTTCTGTAAGGAGGATGGAAAAGTCATTTGCTG
 GTTTTGTAAGTGTCTCAGGAACACCAAGGTACCAAACATTCCGCATAAACGAGGTGGTCAAGGAATGT
 CAGGAAAAGCTGCAGGTAGCCCTGCAGAGGCTGATAAAGGAGGATCAAGAGGCTGAGAAGCTGGAAGATG
 ACATCAGACAAGAGAGAACCCTGGAAGAATTATCCAGATCGAGAGACAGAAGATTCTGAAAGGTT
 CAATGAAATGAGAGTCATCTTGACAATGAGGAGCAGAGAGAGCTGCAAAGCTGGAGGAAGGTGAGGTG
 AATGTGCTGGACAACCTGGCAGCAGCTACAGACCAGCTGGTCCAGCAGAGGCAGGATGCCAGCACGCTCA
 TCTCAGATCTCCAGCGGAGGTTGAGGGGATCGTCAGTAGAGATGCTGCAGGATGTGATTGACGTCATGAA
 AAGGAGTAAAGCTGGACATTGAAGAAGCCAAAATCTGTTTCAAAGAACTAAAGAGTGTATTCCGAGTA
 CCAGATCTGAGTGGGATGCTGCAAGTCTTAAAGAGCTGACAGATGTCCAGTACTACTGGGTGGACGTGA
 TGCTGAATCCAGGCAGTGCCACTTCAATGTGCTATTTCTGTGGATCAGAGACAAGTAAAACTGTACG
 CACCTGCACATTAAGAATCAAATCCATGTGATTTTTCTGCTTTTGGTGTCTTCGGCTGCCAATATTTCT
 TCTTCGGGAAAATATTACTGGGAAGTAGATGTCTGGAAGATTGCCTGGATCCTGGGCGTACACAGTA
 AAATAAGTAGTGAATAAAAAGGAAGAGCTCTGGGTTTGTCTTTGATCCAAGTGAATTAATTTCAAAGT
 TTAATCCAGATATAGACCTCAATATGGCTACTGGGTTATAGGATTACAGAATACATGTGAATATAATGCT
 TTTGAGGACTCCTCTTCTGATCCCAAGTTTTGACTCTTTATGGCTGTGCCTCCCTGTCGATTG
 GGGTTTTCTAGACTATGAGGCAGGCATTGTCTCATTTCATGTCACAAACCACGAGCACTCATCTA
 CAAGTTCTCTGGATGTCGCTTTTCTCGACCTGCTATCCGATTTCAATCCTTGGAACTGCCTAGTCCCC
 ATGACTGTGTGCCACCGAGCTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207431 protein sequence
 Red=Cloning site Green=Tags(s)

MDFSVKVDIEKEVTCPICLELLTEPLSLDCGHSFCQACITAKIKESVII SRGESSCPVCQTRFQPGNLRP
 NRHLANIVERVKEVKMSPQEGQKRDVCEHHGKQLQIFCKEDGKVICWVCELSQEHQGHQTFRINEVVKEC
 QEKLQVALQRLIKEDQEA EKLEDDIRQERTAWKNYIQIERQKILKGFNEMRVILDNEEQRELQKLEEGEV
 NVLDNLAATDQLVQQRQDASTLISDLQRRLRGSSVEMLQDVIDVMKRSESWTLKPKSVSKKLKSVFRV
 PDL SGMQLQVLKELTDVQYYWVDVMLNPGSATSNVAISVDQRQVKTVRTCTFKNSNPCDFSAGVFGCQYF
 SSGKYYWEVDVSGKIAWILGVHSKISSLNKRKSSGF AFDPSVNYSKVYSRYRPQYGYWVIGLQNTCEYNA
 FEDSSSDPKVLTLMFVPPCRIGVFLDYEAGIVSFFNVTNHGALIYKFSGCRFSRPAYPYFNPWNCLVP
 MIVCPPSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6136_b02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_006074

ORF Size: 1494 bp

OTI Disclaimer: 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_006074.5](#)

RefSeq Size: 3111 bp

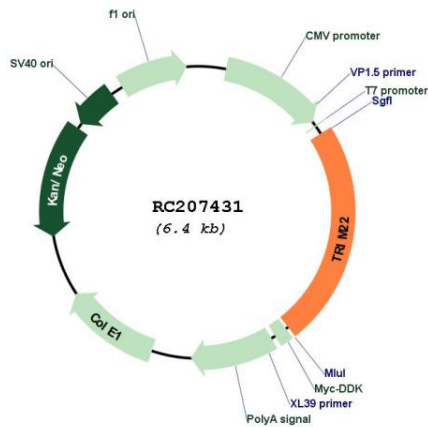
RefSeq ORF: 1497 bp

Locus ID: 10346

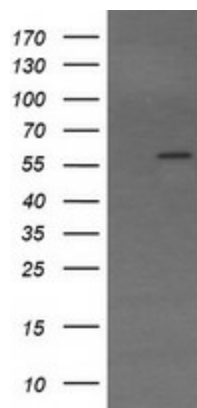
UniProt ID: [Q8IYM9](#)
Cytogenetics: 11p15.4
Domains: zf-B_box, RING
Protein Families: Druggable Genome, Transcription Factors
MW: 56.9 kDa

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 localizes to the cytoplasm and its expression is induced by interferon. The protein down-regulates transcription from the HIV-1 LTR promoter region, suggesting that function of this protein may be to mediate interferon's antiviral effects. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2010]

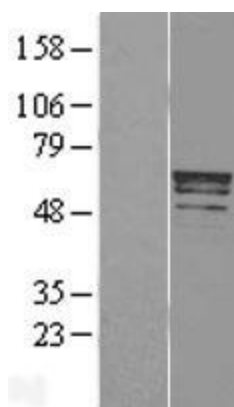
Product images:



Circular map for RC207431



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TRIM22 (Cat# RC207431, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TRIM22(Cat# [TA505281]). Positive lysates [LY401829] (100ug) and [LC401829] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401829]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207431 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).