

Product datasheet for RC212392

RNF21 (TRIM34) (NM_130390) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNF21 (TRIM34) (NM_130390) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RNF21
Synonyms:	IFP1; RNF21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212392 representing NM_130390 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTCAAAAATCTTGCTTAACGTACAAGAGGAGGTGACCTGTCCCATCTGCCTGGAGCTGTTGACAG
AACCCCTTGAGTCTAGACTGTGGCCACAGCCTCTGCCGAGCCTGCATCACTGTGAGCAACAAGGAGGCAGT
GACCAGCATGGGAGGAAAAAGCAGCTGTCCTGTGTGGTATCAGTTACTCATTTGAACATCTACAGGCT
AATCAGCATCTGGCCAACATAGTGGAGAGACTCAAGGAGGTCAAGTTGAGCCCAGACAATGGGAAGAAGA
GAGATCTCTGTGATCATCATGGAGAGAACTCCTACTTCTGTGAAGGAGGATAGGAAAGTCATTTGCTG
GCTTTGTGAGCGGTCTCAGGAGCACCGTGGTACCACACAGTCCCTCACGGAGGAAGTATTCAAGGAATGT
CAGGAGAACTCCAGGCAGTCCCTCAAGAGGCTGAAGAAGGAAGAGGAGGAAGCTGAGAAGCTGGAAGCTG
ACATCAGAGAAGAGAAAACCTTCTGGAAGTATCAGGTACAACTGAGAGACAAAGGATACAAACAGAATT
TGATCAGCTTAGAAGCATCCTAAATAATGAGGAGCAGAGAGAGCTGCAAAGATTGGAAGAAGAAGAAAAG
AAGACGCTGGATAAGTTTGCAGAGGCTGAGGATGAGCTAGTTGAGCAGAAGCAGTTGGTGGAGAGCTCA
TCTCAGATGTGGAGTGTGGAGTCAGTGGTCAACAATGGAGCTGCTGCAGGACATGAGTGGAAATCATGAA
ATGGTGCGTATGGGTGCCAGGAGTGGTCTTGTGAGTTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC212392 representing NM_130390
 Red=Cloning site Green=Tags(s)

MASKILLNVQEEVTCPICLELLTEPLSLDCGHSLCRACITVSNKEAVTSMGGKSSCPVCGISYSFEHLQA
 NQHLANIVERLKEVKLSPDNGKKRDLCDHHGKLLLFCKEDRKVICWLCERSQEHRRGHHTVLTTEEVFKEC
 QEKLQAVLKRLKKEEEEAEKLEADIREEKTSWKYQVQTERQRIQTETFDQLRSILNNEEQRELQRLLEEEK
 KTLDKFAEADELVQKQLVRELI SDVECRSQWSTMELLQDMSGIMKWCVWVARSGACEL

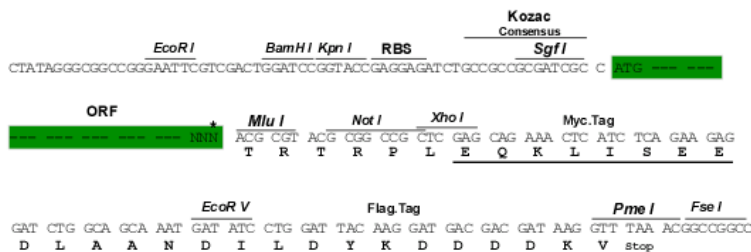
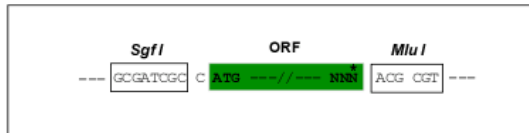
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8048_d03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_130390

ORF Size: 810 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.

RefSeq: [NM_130390.2](#), [NP_569074.2](#)

RefSeq Size: 944 bp

RefSeq ORF: 813 bp

Locus ID: 53840

UniProt ID: [Q9BYJ4](#)

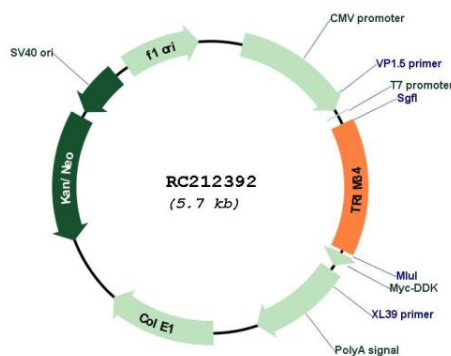
Cytogenetics: 11p15.4

Protein Families: Druggable Genome

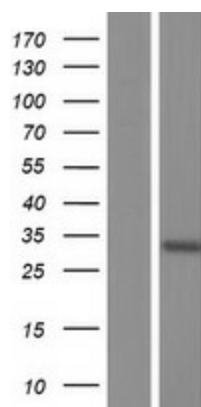
MW: 31.2 kDa

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, B-box type 1 and B-box type 2 domain, and a coiled-coil region. Expression of this gene is up-regulated by interferon. This gene is mapped to chromosome 11p15, where it resides within a TRIM gene cluster. Alternative splicing results in multiple transcript variants. A read-through transcript from the upstream TRIM6 gene has also been observed, which results in a fusion product from these neighboring family members. [provided by RefSeq, Oct 2010]

Product images:



Circular map for RC212392



Western blot validation of overexpression lysate (Cat# [LY408983]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212392 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).