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Product datasheet for RG212392

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:	TurboGFP
Symbol:	TRIM34
Synonyms:	IFP1; RNF21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG212392 representing NM_130390
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTTCAAAAATCTTGCTTAACGTACAAGAGGAGGTGACCTGTCCCATCTGCCTGGAGCTGTTGACAG
AACCCTTGAGTCTAGACTGTGGCCACAGCCTCTGCCGAGCCTGCATCACTGTGAGCAACAAGGAGGCAGT
GACCAGCATGGGAGGAAAAAGCAGCTGTCCTGTGTGTGGTATCAGTTACTCATTTGAACATCTACAGGCT
AATCAGCATCTGGCCAACATAGTGGAGAGACTCAAGGAGGTCAAGTTGAGCCCAGACAATGGGAAGAAGA
GAGATCTCTGTGATCATCATGGAGAGAAACTCCTACTCTTCTGTAAGGAGGATAGGAAAGTCATTTGCTG
GCTTTGTGAGCGGTCTCAGGAGCACCGTGGTCACCACACAGTCCTCACGGAAGAAGTATTCAAGGAATGT
CAGGAGAAACTCCAGGCAGTCCTCAAGAGGCTGAAGAAGGAAGAGGAGGAAGCTGAGAAGCTGGAAGCTG
ACATCAGAGAAGAGAAAACTTCCTGGAAGTATCAGGTACAAACTGAGAGACAAAGGATACAAACAGAATT
TGATCAGCTTAGAAGCATCCTAAATAATGAGGAGCAGAGAGAGCTGCAAAGATTGGAAGAAGAAGAAAAG
AAGACGCTGGATAAGTTTGCAGAGGCTGAGGATGAGCTAGTTCAGCAGAAGCAGTTGGTGAGAGAGCTCA
TCTCAGATGTGGAGTGTCGGAGTCAGTGGTCAACAATGGAGCTGCTGCAGGACATGAGTGGAATCATGAA
ATGGTGCGTATGGGTGGCCACGAGTGGTGCTTGTGAGTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

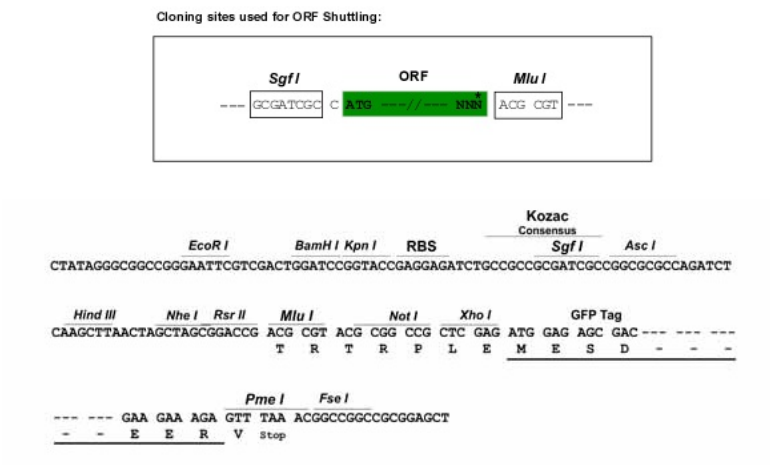
>RG212392 representing NM_130390
Red=Cloning site Green=Tags(s)

MASKILLNVQEEVTCPICLELLTEPLSLDCGHSLCRACITVSNKEAVTSMGGKSSCPVCGISYSFEHLQA
NQHLANIVERLKEVKLSPDNGKKRDLCDHHGEKLLLFCKEDRKVICWLCERSQEHRGHHTVLTEEVFKEC
QEKLQAVLKRLKKEEEEAEKLEADIREEKTSWKYQVQTERQRIQTEFDQLRSILNNEEQRELQRLEEEEK
KTLDKFAEAEDELVQQKQLVRELISDVECRSQWSTMELLQDMSGIMKWCVWVATSGACEL

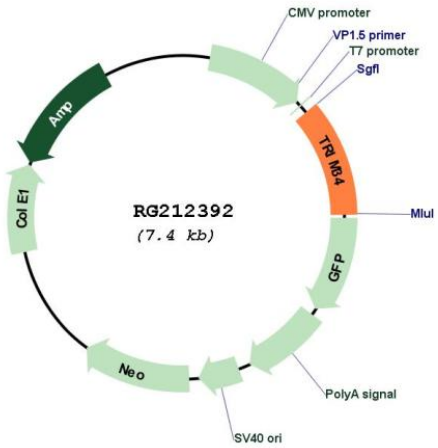
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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_130390.1, NP_569074.1
RefSeq Size:	944 bp
RefSeq ORF:	813 bp
Locus ID:	53840
UniProt ID:	Q9BYJ4
Cytogenetics:	11p15.4
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, 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]