

Product datasheet for **RC204578**

RNF125 (NM_017831) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNF125 (NM_017831) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RNF125
Synonyms:	TNORS; TRAC-1; TRAC1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC204578 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC**GGCGC**
GCCC

ATGGGCTCCGTGCTGAGCACCGACAGCGGCAAATCGGCGCCGCCTCTGCCACCGCGGGGCCCTGGAGC
GCAGGAGGGACCCGGAGTTGCCCGTCACGTCCTTCGACTGCGCCGTGTGCCTTGAGGTGTACACCAGCC
TGTCGGACCCGCTGTGGCCACGTAATCTGCCGTTCTGTATTGCTACCAGTCTAAGAACAACAAGTGG
ACCTGTCTTATTGCCGGGCATATCTTCTTCAGAAGGAGTTCAGCAACTGATGTAGCCAAAAGATGA
AATCAGAGTATAAGAAGTGCCTGAGTGTGACATAGTTCTTTACCTCAGTGAAATGAGGGCACATATTCCG
GACTTGTGAGAAGTACATAGATAAGTATGGACCACTACAAGAAGTTCAGGAGACAGCAGCAAGGTGTGTA
TGTCCCTTTTGTGAGGGAACTGTATGAAGACAGCTTGTGGATCATTGTATTACTCATCAGATCGG
AACGGAGGCCTGTGTTCTGTCCACTTTGCCGTTAATACCCGATGAGAATCCAAGCAGCTTCAGTGGCAG
TTAATAAGACATCTGCAAGTTAGTCACACTTTGTTTTATGATGATTTTCATAGATTTTAAATAATTGAG
GAAGCTTTATCCGAAGAGTCTTAGACCGGTCATTCTTGAATATGTGAATCACTCGAACACAGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204578 protein sequence
Red=Cloning site Green=Tags(s)

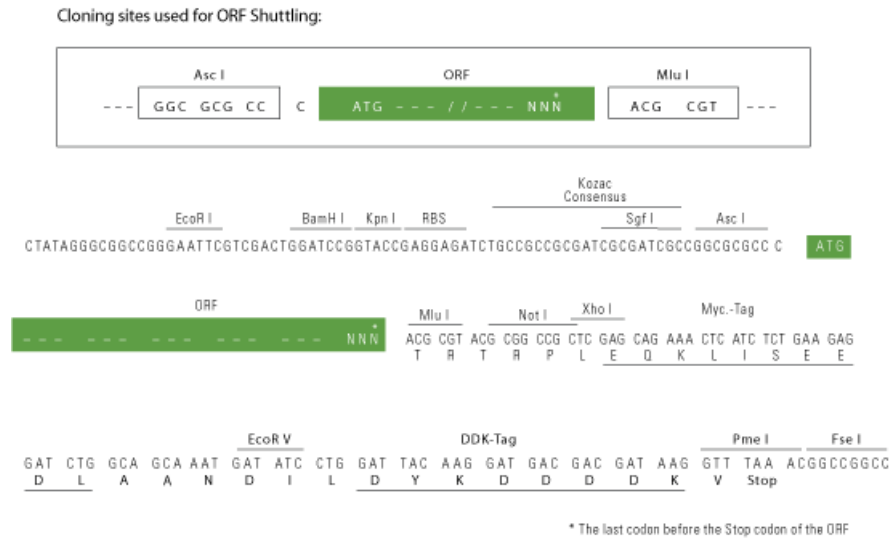
MGSVLSTDSGKSAPASATARALERRRDPPELPTVSFDCAVCLEVLHQPVTRTRCGHVFCRSCIATSLKNNKW
 TCPYCRAYLPSEGVPA TDVAKRMKSEYKNAECDIVLYLSEMPRAHIRTQCKYIDKYGPLQLEETAARCV
 CPFQCQRELYEDSLLDHCITHRSERRPVFCPLCRLIPDENPSSFSGSLIRHLQVSHTLFYDDFIDFNIIIE
 EALIRRVLDRSLLEYVNSNTA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

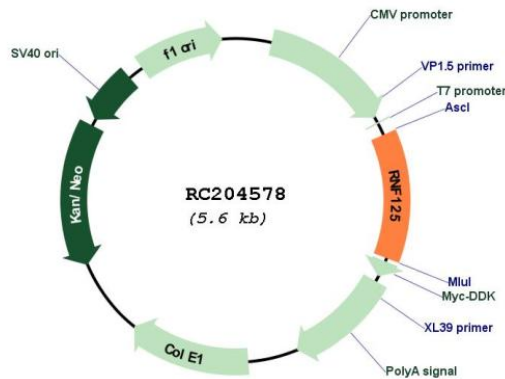
Chromatograms: https://cdn.origene.com/chromatograms/mk6746_h04.zip

Restriction Sites: AscI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_017831

ORF Size: 696 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_017831.4](#)

RefSeq Size: 5888 bp

RefSeq ORF: 699 bp

Locus ID: 54941

UniProt ID: [Q96EQ8](#)

Cytogenetics: 18q12.1

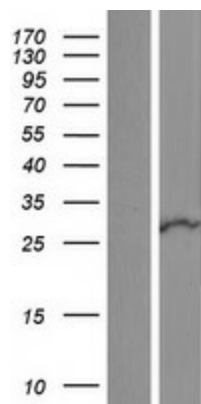
Domains: RING

Protein Families: Druggable Genome

Protein Pathways: RIG-I-like receptor signaling pathway

MW: 26.5 kDa

Gene Summary: This gene encodes a novel E3 ubiquitin ligase that contains a RING finger domain in the N-terminus and three zinc-binding and one ubiquitin-interacting motif in the C-terminus. As a result of myristoylation, this protein associates with membranes and is primarily localized to intracellular membrane systems. The encoded protein may function as a positive regulator in the T-cell receptor signaling pathway. [provided by RefSeq, Mar 2012]

Product images:

Western blot validation of overexpression lysate (Cat# [LY413505]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204578 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).