

Product datasheet for **RG204578**

RNF125 (NM_017831) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RNF125 (NM_017831) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RNF125
Synonyms: TNORS; TRAC-1; TRAC1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG204578 representing NM_017831
Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC**GGCGC**
GCCC

ATGGGCTCCGTGCTGAGCACCGACAGCGGCAAATCGGCGCCCGCCTCTGCCACCGCGGGCCCTGGAGC
GCAGGAGGGACCCGGAGTTGCCCGTCACGTCTTCGACTGCGCCGTGCCTTGAGGTGTTACACCAGCC
TGTCGGACCCGCTGTGGCCACGTATTCTGCCGTTCTGTATTGCTACCAGTCTAAGAACAACAAGTGG
ACCTGTCCTTATTGCCGGGCATATCTTCCTTCAGAAGGAGTTCAGCAACTGATGTAGCCAAAAGAATGA
AATCAGAGTATAAGAAGTGCCTGAGTGTGACACCCTGGTTTGCCTCAGTAAAATGAGGGCACATATTCCG
GACTTGTGAGAAGTACATAGATAAGTATGGACCACTACAAGAAGTGGAGGAGACAGCAGCAAGGTGTGTA
TGTCCCTTTTGTGAGAGGAACTGTATGAAGACAGCTTGCTGGATCATTGTATTACTCATCACAGATCGG
AACGGAGGCTGTGTTCTGTCCACTTTGCCGTTTAAATACCGATGAGAATCCAAGCAGCTTCAGTGGCAG
TTTAATAAGACATCTGCAAGTTAGTCACACTTTGTTTTATGATGATTTTCATAGATTTTAATAATTGAG
GAAGCTCTTATCCGAAGAGTCTTAGACCGGTCCTTCTGAATATGTGAATCACTCGAACACAGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204578 representing NM_017831
 Red=Cloning site Green=Tags(s)

MGSVLSTDSGKSAPASATARALERRRDPELPTVSFDCAVCLEVLHQVVRTRCGHVFCRSCIATSLKNNKW
 TCPYCRAYLPSEGVPAADVAKRMKSEYKNCAECDLVLCLSEMHAIHRTCQKYIDKYGPLQEETAARCV
 CPFCQRELYEDSLLDHCITHRSERRPVFCPLCRLIPDENPSSFSGSLIRHLQVSHTLFYDDFIDFNIEE
 EALIRRVLDRLSLEYVNHNSNTA

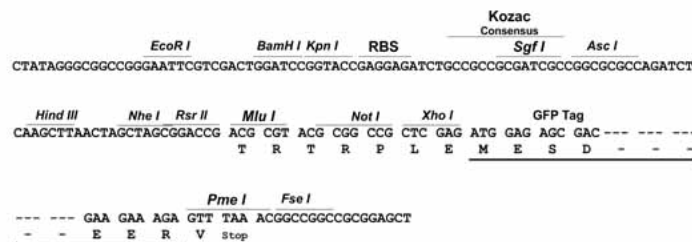
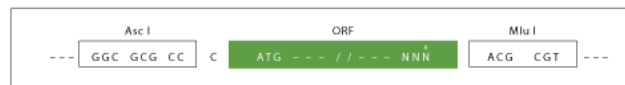
TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2153_f08.zip

Restriction Sites: AscI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_017831

ORF Size: 696 bp

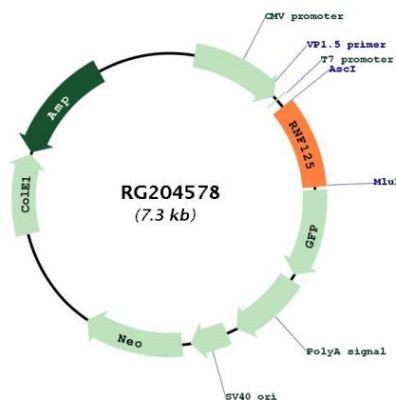
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:	<ol style="list-style-type: none"> 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:	<u>NM_017831.3, NP_060301.2</u>
RefSeq Size:	5888 bp
RefSeq ORF:	699 bp
Locus ID:	54941
UniProt ID:	<u>Q96EQ8</u>
Cytogenetics:	18q12.1
Domains:	RING
Protein Families:	Druggable Genome
Protein Pathways:	RIG-I-like receptor signaling pathway
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:



Circular map for RG204578