

Product datasheet for **RG201402**

RNF8 (NM_003958) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNF8 (NM_003958) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RNF8
Synonyms:	hRNF8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG201402 representing NM_003958
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGGGAGCCCGCTTCTTCGTCACAGGAGACCGCGCCGGTGGCCGGAGCTGGTGCCTGCGGCGGGTGG
 GGATGAGCGCCGGTGGCTGCTGCTGGAAGATGGGTGCGAGGTGACTGTAGGACGAGGATTTGGTGTAC
 ATACCAACTGGTATCAAAAATCTGCCCCCTGATGATTTCTCGAAACCACTGTGTTTTGAAGCAGAATCCT
 GAGGGCAATGGACAATTATGGACAACAAGAGTCTAAATGGTGTGGCTGAACAGAGCGCGTCTGGAAC
 CTTTAAGGTCTATTCCATTCATCAGGGAGACTACATCCAACCTGGAGTGCCTCTGGAAAATAAGGAGAA
 TGCGGAGTATGAATATGAAGTTACTGAAGAAGACTGGGAGACAATATCCTTGTCTTTCCCAAAGAAT
 GACCAATGATAGAAAAAATAAGGAATTGAGAACTAAAAGGAAATTCAGTTGGATGAATTAGCAGGTC
 CTGGAGCTGAAGGCCCTCAAATTTGAAATCCAAAATAAATAAAGTGTCTTGTGAATCTGGTCAGCCAGT
 GAAATCACAGGGAAAGGTGAAGTGGCCAGTACACCCTGACAATTTGGATCCTAAGTTGACTGCCCTT
 GAGCCAAGTAAGACCACAGGGGCTCCCATTTACCTGGCTTCCCAAAGTACAGAGGTTTATCATGAGC
 AGAAAGCCTCAAACCTCTCAGCATCTCAGAGAAGCTTACAGATGTTTAAGGTGACCATGTCCAGGATTCT
 GAGGCTCAAAATACAGATGCAGGAAAAACATGAAGCCGTTATGAATGTGAAAAAGCAGACCCAAAAGGGG
 AACTCAAAGAAAGTTGTGCAAAATGGAGCAGGAACCTCAGGACTTACAGTCCCAGCTGTGTGCAGAGCAGG
 CTCAGCAGCAGGCAAGAGTGGAGCAACTAGAGAAGACTTCCAGGAAGAGGAACAGCATCTTCAGGGTTT
 GGAGATAGCCCAAGGAGAAAAGGACCTGAAGCAACAGCTGGCCCAGGCTCTGCAGGAGCATTGGGCTCTA
 ATGGAAGAGCTAAATCGCAGCAAGAAGGACTTTGAAGCAATCATTCAAGCCAAGAACAAGAATTAGAGC
 AGACCAAGGAAGAGAAGGAGAAGATGCAAGCACAGAAGGAAGAAGTTCTTAGCCACATGAATGTGTGCT
 AGAGAATGAGCTCCAATGTATTATTTGTTGAGAATACTTCATTGAGGCTGTCACCTTGAAGTGTGCCAC
 AGTTTCTGCTCCTACTGTATCAATGAATGGATGAAGCGGAAGATAGAATGCCCATTTGTGCGAAGGACA
 TTAAGTCCAAAACATACTCTTTGGTTCTGGACAATTGCATTAATAAGATGGTAAATAATCTGAGCTCAGA
 AGTGAAAGAACGACGAATTGTTCTCATTAGGGAACGAAAAGCAAAGAGATTGTTCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG201402 representing NM_003958
 Red=Cloning site Green=Tags(s)

MGEPGFFVTGDRAGGRSWCLRRVGMASAGWLLLEDGCEVTVGRGFVQYQLVSKICPLMISRHCVLKQNP
 EGQWTIMDNKSLNGVWLNRRARLEPLRVYSIHQGDYIQLGVPLENKENAEEYEVTEEDWETIYPCLSPKN
 DQMIKKNKELRTRKRFSLDELAPGAEGPSNLKSKINKVSCESGQPVKSQGKGEVASTPSDNLDPKLTAL
 EPSKTTGAPIYPGFPKVTVEVHHEQKASNSASQSLQMFKVTMSRILRLKIQMQEKHEAVMNVKKQTQKG
 NSKKVVQMEQELQDLQSQLCAEQAQQARVEQLEKTFQEEEQHLQGLEIAQGEKDLKQQLAQLQEHWAL
 MEELNRSKKDFEAIQAKNKELEQTKEEKEKMQAQKEEVLSHMNDVLENELQCIIICSEYFIEAVTLNCAH
 SFCSYCINEMWKRKIECPICRKDIKSKTYSVLVLDNCINKMVNLSSEVKERRIVLIRERKAKRLF

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_003958

ORF Size: 1455 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.

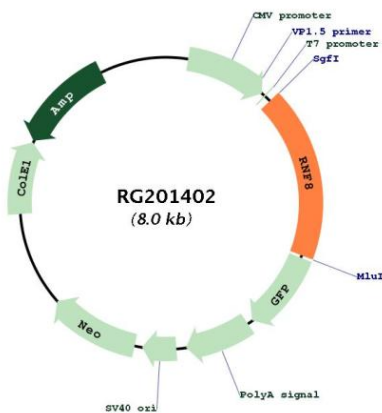
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_003958.2, NP_003949.1](#)
RefSeq Size: 5600 bp
RefSeq ORF: 1458 bp
Locus ID: 9025
UniProt ID: [O76064](#)
Cytogenetics: 6p21.2
Domains: FHA, RING

Gene Summary: The protein encoded by this gene contains a RING finger motif and an FHA domain. This protein has been shown to interact with several class II ubiquitin-conjugating enzymes (E2), including UBE2E1/UBCH6, UBE2E2, and UBE2E3, and may act as an ubiquitin ligase (E3) in the ubiquitination of certain nuclear proteins. This protein is also known to play a role in the DNA damage response and depletion of this protein causes cell growth inhibition and cell cycle arrest. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2012]

Product images:



Circular map for RG201402