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Product datasheet for RC201402

RNF8 (NM_003958) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNF8 (NM_003958) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RNF8
Synonyms:	hRNF8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC201402 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGGAGCCCGGCTTCTTCGTCACAGGAGACCGCGCCGGTGGCCGGAGCTGGTGCCTGCGGCGGGTGG
GGATGAGCGCCGGGTGGCTGCTGCTGGAAGATGGGTGCGAGGTGACTGTAGGACGAGGATTTGGTGTCAC
ATACCAACTGGTATCAAAAATCTGCCCCCTGATGATTTCTCGAAACCACTGTGTTTTGAAGCAGAATCCT
GAGGGCCAATGGACAATTATGGACAACAAGAGTCTAAATGGTGTTTGGCTGAACAGAGCGCGTCTGGAAC
CTTTAAGGGTCTATTCCATTCATCAGGGAGACTACATCCAACTTGGAGTGCCTCTGGAAAATAAGGAGAA
TGCGGAGTATGAATATGAAGTTACTGAAGAAGACTGGGAGACAATATATCCTTGTCTTTCCCCAAAGAAT
GACCAAATGATAGAAAAAAATAAGGAATTGAGAACTAAAAGGAAATTCAGTTTGGATGAATTAGCAGGTC
CTGGAGCTGAAGGCCCCTCAAATTTGAAATCCAAAATAAATAAAGTGTCTTGTGAATCTGGTCAGCCAGT
GAAATCACAGGGGAAAGGTGAAGTGGCCAGTACACCCTCTGACAATTTGGATCCTAAGTTGACTGCCCTT
GAGCCAAGTAAGACCACAGGGGCTCCCATTTACCCTGGCTTCCCCAAAGTCACAGAGGTTCATCATGAGC
AGAAAGCCTCAAACTCTTCAGCATCTCAGAGAAGCTTACAGATGTTTAAGGTGACCATGTCCAGGATTCT
GAGGCTCAAAATACAGATGCAGGAAAAACATGAAGCCGTTATGAATGTGAAAAAGCAGACCCAAAAGGGG
AACTCAAAGAAAGTTGTGCAAATGGAGCAGGAACTTCAGGACTTACAGTCCCAGCTGTGTGCAGAGCAGG
CTCAGCAGCAGGCAAGAGTGGAGCAACTAGAGAAGACTTTCCAGGAAGAGGAACAGCATCTTCAGGGTTT
GGAGATAGCCCAAGGAGAAAAGGACCTGAAGCAACAGCTGGCCCAGGCTCTGCAGGAGCATTGGGCTCTA
ATGGAAGAGCTAAATCGCAGCAAGAAGGACTTTGAAGCAATCATTCAAGCCAAGAACAAAGAATTAGAGC
AGACCAAGGAAGAGAAGGAGAAGATGCAAGCACAGAAGGAAGAAGTTCTTAGCCACATGAATGATGTGCT
AGAGAATGAGCTCCAATGTATTATTTGTTCAGAATACTTCATTGAGGCTGTCACCTTGAACTGTGCCCAC
AGTTTCTGCTCCTACTGTATCAATGAATGGATGAAGCGGAAGATAGAATGCCCCATTTGTCGGAAGGACA
TTAAGTCCAAAACATACTCTTTGGTTCTGGACAATTGCATTAATAAGATGGTAAATAATCTGAGCTCAGA
AGTGAAAGAACGACGAATTGTTCTCATTAGGGAACGAAAAGCAAAGAGATTGTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201402 protein sequence
Red=Cloning site Green=Tags(s)

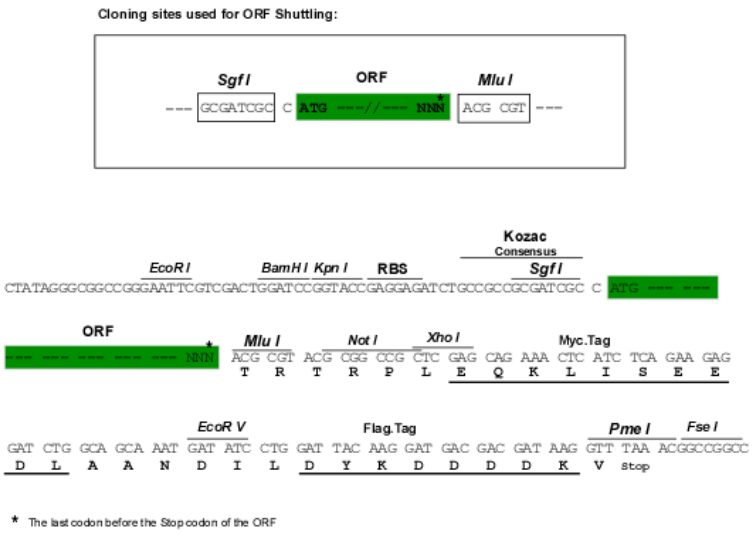
MGEPGFFVTGDRAGGRSWCLRRVGMSAGWLLLEDGCEVTVGRGFGVTYQLVSKICPLMISRNHCVLKQNP
EGQWTIMDNKSLNGVWLNRARLEPLRVYSIHQGDYIQLGVPLENKENAEYEYEVTEEDWETIYPCLSPKN
DQMIEKNKELRTKRKFSLDELAGPGAEGPSNLKSKINKVSCESGQPVKSQGKGEVASTPSDNLDPKLTAL
EPSKTTGAPIYPGFPKVTEVHHEQKASNSSASQRSLQMFKVTMSRILRLKIQMQEKHEAVMNVKKQTQKG
NSKKVVQMEQELQDLQSQLCAEQAQQQARVEQLEKTFQEEEQHLQGLEIAQGEKDLKQQLAQALQEHWAL
MEELNRSKKDFEAIIQAKNKELEQTKEEKEKMQAQKEEVLSHMNDVLENELQCIICSEYFIEAVTLNCAH
SFCSYCINEWMKRKIECPICRKDIKSKTYSLVLDNCINKMVNNLSSEVKERRIVLIRERKAKRLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6409_f11.zip

Restriction Sites: SgfI-MluI

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.

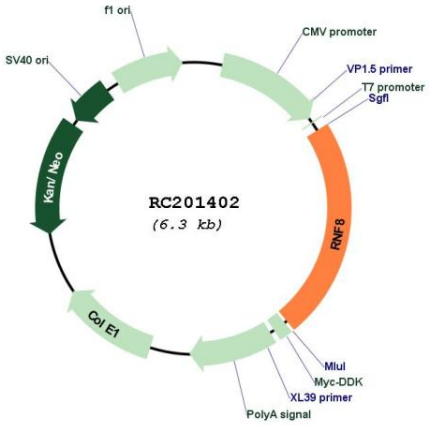
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

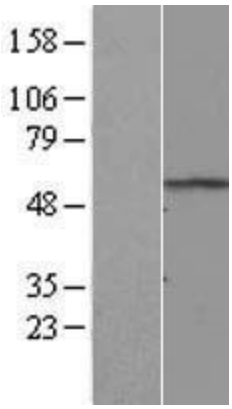
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_003958.4
RefSeq Size:	5639 bp
RefSeq ORF:	1458 bp
Locus ID:	9025
UniProt ID:	O76064
Cytogenetics:	6p21.2
Domains:	FHA, RING
MW:	55.5 kDa
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 RC201402



Western blot validation of overexpression lysate (Cat# [LY418324]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201402 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).