

Product datasheet for **SC110018**

RNF8 (NM_003958) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNF8 (NM_003958) Human Untagged Clone
Tag:	Tag Free
Symbol:	RNF8
Synonyms:	hRNF8
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF:

>OriGene sequence for NM_003958 edited
 GAATTCGGCACGAGGGTGGCGATTGCTTCTGTCTGTTATTTAGATATGGAAGCTGAGGGG
 ATGCACAGAGGCAGCCAGAACCTAGGTCAGGGTCTCGCTCGGTGCTGACCGCCCCGGGG
 TCGAGTAGGCGATGGGGGAGCCCGGCTTCTTCGTACAGGAGACCGCGCCGGTGGCCGGA
 GCTGGTGCCTGCGGCGGGTGGGGATGAGCGCCGGTGGCTGCTGCTGGAAGATGGGTGCG
 AGGTGACTGTAGGACGAGGATTTGGTGTACATACCAACTGGTATCAAAAATCTGCCCC
 TGATGATTTCTCGAAACCACTGTGTTTTGAAGCAGAATCCTGAGGGCCAATGGACAATTA
 TGGACAACAAGAGTCTAAATGGTGTGGCTGAACAGAGCGCTCTGGAACCTTTAAGGG
 TCTATTCCATTATCAGGGAGACTACATCCAACCTGGAGTGCCTCTGAAAAATAAGGAGA
 ATGCGGAGTATGAATATGAAGTTACTGAAGAAGACTGGGAGACAATATATCCTTGTCTTT
 CCCCCAAGAAATGACCAAAATGATAGAAAAAATAAGGAATTGAGAACTAAAAGGAAATTCA
 GTTTGGATGAATTAGCAGGTCTGGAGCTGAAGGCCCTCAAATTTGAAATCCAAATAA
 AATAAGTGTCTTGTGAATCTGGTCAGCCAGTGAAATCACAGGGGAAAGGTGAAGTGCCA
 GTACACCTCTGACAATTTGGATCCTAAGTTGACTGCCCTTGAGCCAAGTAAGACCACAG
 GGGCTCCCATTTACCCTGGCTTCCCCAAGTCACAGAGGTTTCATCATGAGCAGAAAGCCT
 CAAACTCTTCAGCATCTCAGAGAAGCTTACAGATGTTTAAAGGTGACCATGTCCAGGATTC
 TGAGGCTCAAAATACAGATGCAGGAAAAACATGAAGCCGTTATGAATGTAAAAAGCAGA
 CCCCCAAGGGGAACTCAAAGAAAGTTGTGCAATGGAGCAGGAACTTCAGGACTTACAGT
 CCCAGCTGTGTGCAGAGCAGGCTCAGCAGCAGGCAAGAGTGGAGCAACTAGAGAAGACTT
 TCCAGGAAGAGGAACAGCATCTTCAGGGTTTGGAGATAGCCCAAGGAGAAAAGGACCTGA
 AGCAACAGCTGGCCAGGCTCTGCAGGAGCATTGGGCTCTAATGGAAGAGCTAAATCGCA
 GCAAGAAGGACTTTGAAGCAATCATTCAAGCCAAGAACAAGAATTAGAGCAGACCAAGG
 AAGAGAAGGAGAAGATGCAAGCACAGAAGGAAGAAGTTCTTAGCCACATGAATGATGTGC
 TAGAGAATGAGCTCCAATGTATTATTTGTTTCAAGAATACTTCATTGAGGCTGTCACCTTGA
 ACTGTGCCACAGTTTCTGCTCCTACTGTATCAATGAATGGATGAAGCGGAAGATAGAAT
 GCCCCATTTGTCGGAAGGACATTAAGTCCAAAACATACTCTTTGGTTCTGGACAATTGCA
 TTAATAAGATGGTAAATAATCTGAGCTCAGAAGTGAAAGAACGACGAATTGTTCTCATT
 GGGAAACGAAAAGCAAAGAGATTGTTCTGAAGACCGTGCTCTAAGGGCATTGAAAGACTG
 CCAGGTAGTGCAGCCTGAGATGGTCTGGAGGATTCTCTAGCCGTGACTCCGCTGCTC
 TGAAGGTCAACTGAGAAGTCTTGTGGGACAGAGACTTGAGTTAGGAAGCCCTCAGTCACT
 TGCCTTCCACGGTGGCCAGCCCTGCTGCCATCATTGGCTGAAGCACCACCAGGATTCACG
 GCACCCAACCTGCTTCAGGGTACTTCGTAGACTCTGCCTACTACATGTGCGAAAGATTAT
 TTGAGTTCTCTTCTGTTTTTTTTTAATTTGTTGTTGTTGTTACTGTTTTGATACCTCGGA
 AACACCTCCGTTGACAGTTGTTTTGGATAGGTTGGGTGTACCCCATGGCTGCCTCTGAAG
 GCAGTGTCTATTTTGAAGGATGGCTTACCTCTTCTTTGTGAAAAATACTATCTCATTTCC
 TGGAAATAAAATGTAAACCTAAAAAAAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003958 unedited
 NGGGTT CAGAATATGTATCCGACTACTATAGGGCGGCCGCAATTTCGCACGAGGGTGG
 CGATTGCTTCTGTCTGTTATTTAGATATGGCAAGCTGAGGGGATGCACAGAGGCAGCCAG
 AACCTAGGT CAGGGTCTCGCTCGGTGCTGACCGCCCCCGGGTCGAGTAGGCGATGGGGG
 AGCCCGGCTTCTTCGTACAGGAGACCGCGCCGGTGGCCGGAGCTGGTGCCTGCGGCGGG
 TGGGGATGAGCGCCGGGTGGCTGCTGCTGGAAGATGGGTGCGAGGTGACTGTAGGACGAG
 GATTTGGTGTACATACCAACTGGTATCAAAAATCTGCCCTGATGATTTCTCGAAACC
 ACTGTGTTTTGAAGCAGAATCCTGAGGGCCAATGGACAATTATGGACAACAAGAGTCTAA
 ATGGTGTTTGGCTGAACAGAGCGCTCTGGAACCTTTAAGGGTCTATTCCATTATCAGG
 GAGACTACATCCAACCTGGAGTGCCTCTGGAAAATAAGGAGAATGCGGAGTATGAATATG
 AAGTTACTGAAGAAGACTGGGAGACAATATCCTTGTCTTTCCCAAAGAATGACCAAA
 TGATAGAAAAAATAAGGAATTGAGAACTAAAAGGACATTCAGTTGGATGAATTAGCAG
 GTCCTGGAGCTGAAGGCCCTCCAAATTGAAATCCCAAATAATAAAGCGTCTTGTAATC
 TGGTCAGCCAGTGAATTACAGGGGAAGGTGAAGTGCCAGTACACCCTCTGACAATTG
 GAATCCTAAGTTGACTGCCCTTGAGCCAGTAAAGACCACAGGGCTCCCATTTACCCTGGC
 TCCCCAAAGCCACAGAGGTTTCATCATGAGCAGAAAGCTCAAATCTTACATCTCAGAGAA
 CTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003958 unedited
 CGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTAGGTTTACATTTTATTTCCA
 GGAAATGAGATAGTATTTTACAAAGAAGAGGTAAGCCATCCTCTCAAAATAGACACTGC
 CTT CAGAGGCAGCCATGGGGTACACCCACCTATCCAAAACAACGTCAACGGAGGTGTT
 TCCGAGGTATCAAAACAGTAACAACAACAACAAATTAACAAAAACAGAGAGAACTCAA
 ATAACCTTTTCGACATGTAGTGAGGCAGAGTCTACGAAGTACCCTGAAGCAGTTGGGTGC
 CGTGAATCCTGGTGGTGTTCAGCCAATGATGGCAGCAGGGCTGGCCACCGTGAAGGCA
 AGTGACTGAGGGCTTCCTAACTCAAGTCTCTGTCCCAAGACTTCTCAGTTGACCTTCA
 GAGCAGCGGAGTCACGGCTAGAGAGAATCCTCCAGACCATCTCAGGCTCGCACTACCTGG
 CAGTCTTTCAAATGCCCTTAGAGCACGGTCTTCAGAACAATCTCTTTGCTTTTCGTTCCC
 TAATGAGAACAATTCGTCGTTCTTTCACTTCTGAGCTCAGATTATTTACCATCTTATTAA
 TGCAATTGTCCAGAACCAAGAGTATGTTTTGGACTTAATGTCCTTCCGACAAATGGGGC
 ATTCTATCTTCCGCTTCATCCATTCAATTGATACAGTAGGAGCAGAACTGTGGGCACAGT
 TCAAGGTGACAGCCTCAATGAAGTATTCTGAACAATAATACATTGGAGCTCATTCTCTAG
 CACATCATTATGTGGCTAAGAAAACCTCTCCTTCTGTGCTGCATACTCTCCTTTCTTNC
 TTGGCTGCTCTATTCTTTGTCTGGGCTGATGATGCTTCAAGCCTTCTGCTGCATTAAC
 CCCATTAACCCATGCTCTGCNAGCTGGCCACTGTGCTT

Restriction Sites:

NotI-NotI

ACCN:

NM_003958

Insert Size:

2240 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](#)

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_003958.2](#), [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]

Transcript Variant: This variant (1) represents the most abundant transcript and encodes the longer isoform (1).