

Product datasheet for **RC214013**

RNF43 (NM_017763) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNF43 (NM_017763) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RNF43
Synonyms:	RNF124; SSPCS; URCC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC214013 representing NM_017763
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTGGTGGCCACCAGCTGCAGCTGGCTGCCCTCTGGCCCTGGCTGCTGATGGCTACCCTGCAGGCAG
 GCTTTGGACGCACAGGACTGGTACTGGCAGCAGCGGTGGAGTCTGAAAGATCAGCAGAACAGAAAGCTAT
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 GGTGTTGCTGAAATAACTCCAGCAGAAGGAAAATTAATGCAGTCCCACCCGCTGTACCTGTGCAATGCCA
 GTGATGACGACAATCTGGAGCCTGGATTATCAGCATCGTCAAGCTGGAGAGTCTCGACGGGCCCCCG
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 ATCACTGAGGATCGAGCTGCTGCTGAGCAGCTGCAGCAGCCGCTGGGGCTGACCTGGCCAGTGGTGTGA
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 GAGGGGCAGGAGCTACGGGTCAATTCCTGCCTCCATGAGTTCCATCGTAACTGTGTGGACCCCTGGTTAC
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 TACCACCTCCCTGCTGCCTACCTGTTGGGCCCTCCCGGAGTGCAGTGGCTCGGCCCCACGACCTGGTC
 CCTTCTGCCATCCCAGGAGCCAGGCATGGGCCCTCGGCATACCGCTTCCCAGAGCTGCATACATCCCG
 GGCTCCAGGAGAGCAGCAGCGCCTGGCAGGAGCCAGCACCCCTATGCACAAGGCTGGGGACTGAGCCAC
 CTCCAATCCACCTCACAGCACCTGCTGCTTGCCAGTGGCCCTACGCCGGGCCAGGCCCCCTGACAGCA
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 CTCAGGGCCCTGTATGGCTCTTCCAGTACTCTGTGGTCAACTGCACGGACATCAGCCTACAGGGGGTC
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 AAGGGGATCCCCAGCGAGTGGACATGCAGCCTAGTGTGACCTCTCGCCCTCGTTCCTTGGACTCGGTGGT
 GCCCACAGGGGAAACCCAGGTTTCCAGCCATGTCCACTACCACCGCCACCGGCACCACACTACAAAAAG
 CGGTTCCAGTGGCATGGCAGGAAGCCTGGCCCAGAAACCGGAGTCCCCAGTCCAGGCCTCTATTCTCTC
 GGACACAGCCCCAGCCAGAGCCACCTTCTCTGATCAGCAAGTACCAGATCCAACCTCAGCAGCCCCCTC
 GGGCGGGCTCTTAACCCACAGTGGCCAGGGCCCTCCCTGAGCCAGCCCTGGCCCAGTTGACGCCTCC
 AGCATCTGCCCCAGTACCAGCAGTCTGTTCAACTTGAAAAATCCAGCCTCTCTGCCGACACCCACAGA
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 GAGTTCTGACACCGCAGAGGGCAGGCCATGCCCTTATCCGCACCTGCCAGTGTCTGTGGCCAGCCTGGC
 TCAGAGGAGGAACTCGAGGAGCTGTGTGAACAGGCTGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC214013 representing NM_017763
 Red=Cloning site Green=Tags(s)

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MSGGHQLQLAALWPWLLMATLQAGFGRTGLVLA AA VESERSAEQKAIIRVIPLKMDPTGKLNLTLEGVFA
GVAEITPAEGKLMQSHPLYLCNASDDDNLEPGFISIVKLESPRRAPRCLSLASKARMAGERGASAVLFD
ITEDRAAAEQQLQPLGLTWPVVLIWGNDAEKLMFVYKNQKAHVRIELKEPPAWPDYDVWILMTVGTIF
VIILASVLRIRCRPRHSRPDPLQORTAWAISQLATRRYQASCRQARGEWPDSSGSSCAPVCAICLEEFS
EGQELRVISCLHEFHRNCVDPWLHQHRTCP LCMFNITEGDSFSQSLGPSRSYQEPGRRLHLIRQHPGHAH
YHLPAAYLLGPSRS AVARPPRPGPFLPSQEPGMGRHHRFPRAAHPRAPGEQQRLAGA QHPYAQQWGLSH
LQSTSQH PAACPVPLRRARPPDSSGSGESYCTERSGYLADGPASDSSSGPCHGSSSDSVVNCTDISLQGV
HGSSSTFCSSLSDFDPLVY CSPKGDPQRVDMQPSVTSRPRSLDSVVPTGETQVSSHVYHRHRHHYK
RFQWHGRKPGPETGVPQSRPPIPR TQPQPEPPSPDQQVTRSNSAAPSGRLSNPQCPRALPEPAPGPVDAS
SICPSTSSLFNLQKSSL SARHPQRKRGGPSEPTPGSRPQDATVHPACQIFPHYTPSVAYPWSPEAHPLI
CGPPGLDKRLLPETPGPCYSNSQP VWLCLTPRQPLEPHPPGEGPSEWSSDTAEGRPCPYPHCQVLSA QPG
SEEELEELCEQAV
  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3850_e06.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_017763

ORF Size: 2349 bp

OTI Disclaimer: 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_017763.6](#)

RefSeq Size: 5585 bp

RefSeq ORF: 2352 bp

Locus ID: 54894

UniProt ID: [Q68DV7](#)

Cytogenetics: 17q22

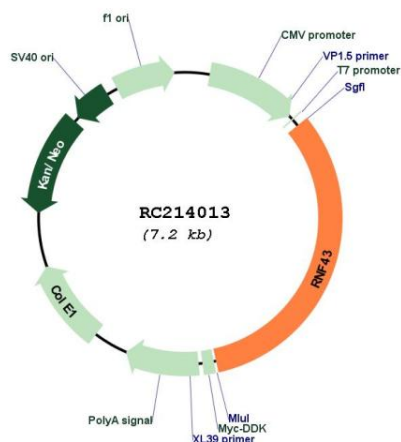
Domains: RING

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

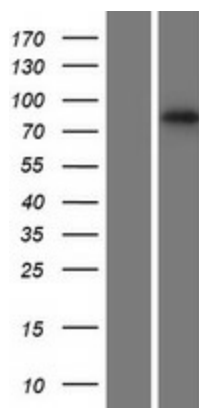
MW: 85.7 kDa

Gene Summary: The protein encoded by this gene is a RING-type E3 ubiquitin ligase and is predicted to contain a transmembrane domain, a protease-associated domain, an ectodomain, and a cytoplasmic RING domain. This protein is thought to negatively regulate Wnt signaling, and expression of this gene results in an increase in ubiquitination of frizzled receptors, an alteration in their subcellular distribution, resulting in reduced surface levels of these receptors. Mutations in this gene have been reported in multiple tumor cells, including colorectal and endometrial cancers. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2015]

Product images:



Circular map for RC214013



Western blot validation of overexpression lysate (Cat# [LY413564]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214013 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).