

Product datasheet for **RC219546**

ZNRF3 (NM_032173) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNRF3 (NM_032173) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNRF3
Synonyms:	BK747E2.3; RNF203
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC219546 representing NM_032173
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCACCCACTGGCCTATGTAATAACAATGACGAAGAGGACTTGTATGAATATGGCTGGGTAGGAGTGG
 TGAAGCTGGAACAGCCAGAATTGGACCCGAAACCATGCCTCACTGTCTAGGCAAGGCCAAGCGAGCAGT
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 GGCTCTGAAGACCCGCTCAAGAGGCCGGTGGTGTATGTGAAGGGTGCAGATGCCATTAAGCTGATGAACA
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 TGACATGGGGATTTTCTGGCTTTCTCGTCGTGGTCTCCTTGGTCTGCCTCATCCTCCTGTCAAATC
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ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA

Protein Sequence: >RC219546 representing NM_032173
Red=Cloning site Green=Tags(s)

MHPLGLCINNDEEDL YEYGVVGVVVKLEQPELDPKPCLTVLGKAKRAVQRGATAVIFDVSENPEAIDQLNQ
GSEDPLKRPVVVYKGAIAIKLMNIVNKQKVARARIQHRPPRPQTEYFDMGIFLAFFVVVSLVCLILLVKI
KLKQRRSQNSMNRLAVQALEKMETRKFNSKSKGRREGSCGALDTLSSSSTSDCAICLEKYIDGEEELRVIP
CTHRFHRRKCVDPWLLQHHTCPHCRHNIIEQKGNPSAVCVETSNL SRGRQQRVTL PVHYPGRVHRTNAIPA
YPTRTSMDSHGPNVTLLTMDRHGEQSLYSPQTPAYIRSYPLHLDHSLAAHRCGLEHRAYSPAHPFRRPK
LSGRSFSKAACFSQYETMYQHYYFQGLSYPEQEQSPPSLAPRGPARAFPPSGSGSLLFPTVVHVAPPSH
LESGSTSSFSCYHGHRVCSGYLADCPGSDSSSSSSSGQCHCSSSDSVVDCTEVSNQGVYGSCSTFRSSL
SSDYDPFIYRSRSPCRASEAGGSGSSGRPALCFEGSPPPEELPAVHSHGAGRGEWPWPASPAGSDQVST
CSLEMNYSSNSLEHRGPNSSSTSEVGLASPGAAPDLRRTWKGGHEL PSCACCEPQPSPAGPSAGAAGS
STLFLGPHLYEGSGPAGGEPQSGSSQGLYGLHPDHLPRTDGVKYEGLPCCFYEEKQVARGGGGGSGCYTE
DYSVSVQYTLTEPPPGCYPGARDLSQRIP IIPEDVDCDLGLPSCQGTHSLGSWGGTRGPDTPRPHRGL
GATREEERALCCQARALLRPGCPPEEAGAVRANFP SALQDTQESSTTATEAAGPRSHSADSSSPGA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8011_c09.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_032173

ORF Size: 2508 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.

RefSeq: [NM_032173.3](#), [NP_115549.2](#)

RefSeq Size: 6541 bp

RefSeq ORF: 2511 bp

Locus ID: 84133

UniProt ID: [Q9ULT6](#)

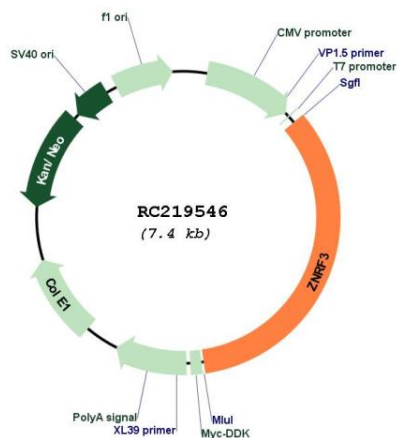
Cytogenetics: 22q12.1

Protein Families: Druggable Genome, Transmembrane

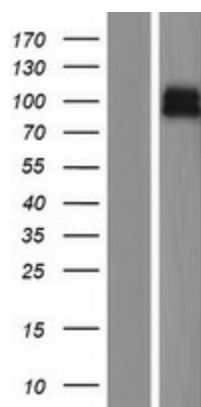
MW: 89.7 kDa

Gene Summary: E3 ubiquitin-protein ligase that acts as a negative regulator of the Wnt signaling pathway by mediating the ubiquitination and subsequent degradation of Wnt receptor complex components Frizzled and LRP6. Acts on both canonical and non-canonical Wnt signaling pathway. Acts as a tumor suppressor in the intestinal stem cell zone by inhibiting the Wnt signaling pathway, thereby restricting the size of the intestinal stem cell zone (PubMed:22575959). Along with RSPO2 and RNF43, constitutes a master switch that governs limb specification (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC219546



Western blot validation of overexpression lysate (Cat# [LY410300]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219546 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).