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Product datasheet for RC216450

RNF169 (NM_001098638) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNF169 (NM_001098638) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RNF169
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC216450 representing NM_001098638
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCTGCAGGTCCGAGTACTCGGGCCTCTTCCGCGGCGGCAGCAGCCGCTCTGAGTCGGCGGGGCC
GGCGGGGCCGCTGTGACGAGACGGCGGCAGCTAAGACTGGGGCCCCAGGCCCGGCTTCTGGACCTTCGCT
GTTGGTGTTGTCGCCGCCGTTGCTGCAGCCGCCGCTGCCGCCGCGGCCGGAGGAATCGGGCTGCGCCGGG
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GCGCCGCCGACGCGGCGGGCCCGGGTTGCCCTCGCTGCCGCGCCCGCGGCCCAGGCTGGGCCCGCCGTCG
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GCGCATGTTCGACAATGAGAGGCGGACTGTGAGCCGGCGAAAAGGAAGTGTGGATCAGTATCTCCTACGG
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC216450 representing NM_001098638
Red=Cloning site Green=Tags(s)

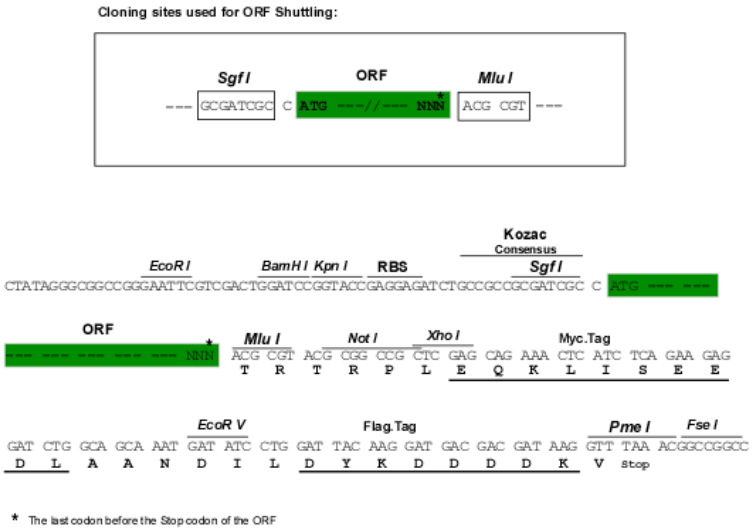
MAAAGPSTRASSAAAAAALSRRGRRGRCDETAAAKTGAPGPASGPSLLVLSPPLLQPPLPPRPEESGCAG
CLEPPGEAAALPCGHSLCRGCAQRAADAAGPGCPRCRARGPGWARRRARDDGQADSEVLGECARRSQPER
CRPRRDGGAAAAGPRPEQEPRAAPAEPDFIFRAPIKLSKPGELREEYESLRKLREEKLQEEKPSEDQIHK
LLPEDTETGKRKMDEQKKRDEPLVLKTNLERCPARLSDSENEEPSRGQMTQTHRSAFVSKNNSYSLAFLA
GKLNSKVERSQSCSDTAQERAKSRVRAVPGNKAKVTTMTPASNPIIGVLLSTQNNRCVSAPDLTIEKRLP
FSSLSSLASLHKPERSVSPESNDSISEELNHFKPIVCSPCTPPKRLPDGRVLSPLIIKSTPRNLNRSLQK
QTSYEASPRILKKWEQIFQERQIKKTLSKATLTSLAPEMGEELLGSEGIHSSKEKPLVAVNTRLSGGQVL
SEYTGPTSADLDHFPSVSQTKAEQDSDNKSSTEIPLETCCSSELKGGGSGTSLEREQFEGLGSTPDAKLD
KTCISRAMKITTVNSVLPQNSVLGGVLKTKQQLKTLNHFDLTNGVLVESLSEEPLPSLRRGRKRHCKTKH
LEQNGSLKKLRQTSGEVGLAPTDPVLREMEQKLQQEEEDRQLALQLQRMFDNERRTVSRRKGSVDQYLLR
SSNMAGAK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8016_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001098638

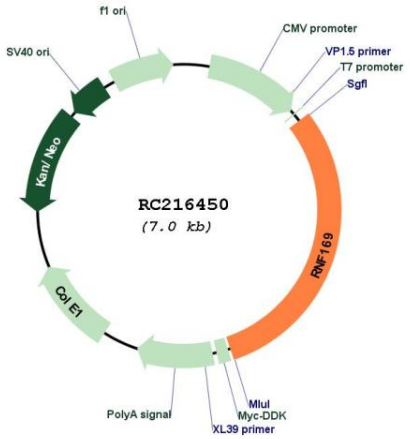
ORF Size: 2124 bp

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_001098638.2
RefSeq Size:	7840 bp
RefSeq ORF:	2127 bp
Locus ID:	254225
UniProt ID:	Q8NCN4
Cytogenetics:	11q13.4
MW:	77 kDa
Gene Summary:	Probable E3 ubiquitin-protein ligase that acts as a negative regulator of double-strand breaks (DSBs) repair following DNA damage. Recruited to DSB repair sites by recognizing and binding ubiquitin catalyzed by RNF168 and competes with TP53BP1 and BRCA1 for association with RNF168-modified chromatin, thereby acting as a negative regulator of DSBs repair. E3 ubiquitin-protein ligase activity is not required for regulation of DSBs repair. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC216450