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Product datasheet for RC209302

IBRDC2 (RNF144B) (NM_182757) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IBRDC2 (RNF144B) (NM_182757) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IBRDC2
Synonyms:	bA528A10.3; IBRDC2; p53RFP; PIR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RC209302 representing NM_182757
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCTCAGCTGGTAGGCTCCACTATCTCGCCATGACTGCTGAAAATCCCACTCCTGGAGACCTGGCTC
CGGCCCCCCTCATCACTTGCAAACTCTGCCTGTGTGAGCAGTCTCTGGACAAGATGACCACACTCCAGGA
ATGCCAGTGCATCTTTTGCACAGCTTGCCTGAAACAGTACATGCAGCTGGCAATCCGAGAAGGATGTGGG
TCTCCCATCACTTGCCCTGACATGGTGTGCCTAAACCACGGGACCCTGCAGGAAGCTGAGATTGCCTGTT
TGGTACCTGTGGACCAGTTTCAACTTTATCAGAGGTTAAAATTTGAAAGAGAAGTTCATCTGGACCCCTA
CCGAACATGGTGTCCTGTTGCAGACTGTCAGACAGTGTGCCCTGTTGCCTCGAGTGACCCAGGACAGCCT
GTGCTGGTGGAATGCCCTTCTTGCCACCTGAAATTCTGCTCGTGTTGCAAGGATGCTTGGCATGCAGAGG
TCTCCTGTAGAGACAGTCAGCCTATTGTCCTGCCAACAGAGCACCGAGCCCTCTTTGGGACAGATGCAGA
AGCCCCCATTAAGCAGTGCCCAGTTTGCCGGGTTTATATCGAACGCAATGAAGGCTGCGCTCAGATGATG
TGCAAAAACTGCAAGCATACATTTTGCTGGTACTGCCTTCAGAACTTGGATAATGACATTTTCCTCAGAC
ATTATGACAAAGGGCCATGCAGGAATAAACTTGGCCACTCAAGAGCATCAGTGATGTGGAACCGAACACA
GGTGGTGGGGATTCTCGTAGGCTTGGGCATCATTGCCTTGGTTACTTCCCCCTTACTCCTGGCCTCCCCA
TGTATAATCTGTTGTGTCTGCAAGTCCTGTCGGGGCAAGAAGAAAAAGCACGACCCATCCACAACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

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>RC209302 representing NM_182757
Red=Cloning site Green=Tags(s)

MGSAGRLHYLAMTAENPTPGDLAPAPLITCKLCLCEQSLDKMTTLQECQCIFCTACLKQYMQLAIREGCG
SPITCPDMVCLNHGTLQEAEIACLVPVDQFQLYQRLKFEREVHLDPYRTWCPVADCQTVCPVASSDPGQP
VLVECPSCHLKFCSCCKDAWHAEVSCRDSQPIVLPTEHRALFGTDAEAPIKQCPVCRVYIERNEGCAQMM
CKNCKHTFCWYCLQNLDNDIFLRHYDKGPCRNKLGHSRASVMWNRTQVVGILVGLGIIALVTSPLLLASP
CIICCVCKSCRGKKKKHDPSTT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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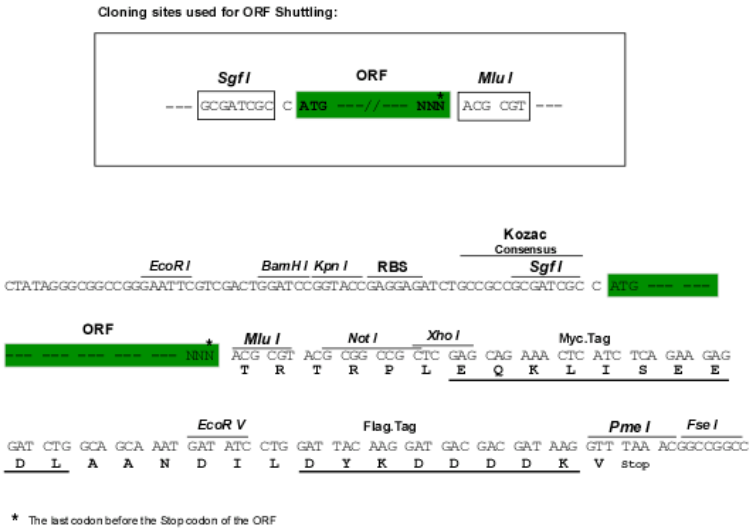
Chromatograms: https://cdn.origene.com/chromatograms/mg2875_e04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_182757

ORF Size: 906 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).

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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_182757.1
RefSeq Size:	4782 bp
RefSeq ORF:	912 bp
Locus ID:	255488
UniProt ID:	Q7Z419
Cytogenetics:	6p22.3
Protein Families:	Transmembrane
MW:	33.5 kDa
Gene Summary:	E3 ubiquitin-protein ligase which accepts ubiquitin from E2 ubiquitin-conjugating enzymes UBE2L3 and UBE2L6 in the form of a thioester and then directly transfers the ubiquitin to targeted substrates such as LCMT2, thereby promoting their degradation. Induces apoptosis via a p53/TP53-dependent but caspase-independent mechanism. However, its overexpression also produces a decrease of the ubiquitin-dependent stability of BAX, a pro-apoptotic protein, ultimately leading to protection of cell death; But, it is not an anti-apoptotic protein per se. [UniProtKB/Swiss-Prot Function]

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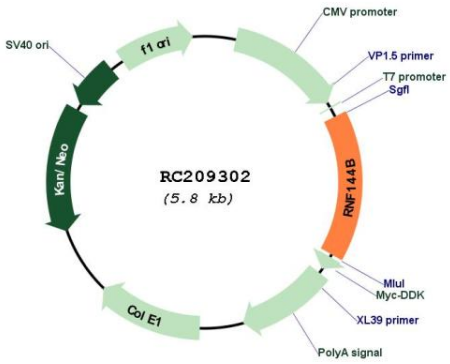
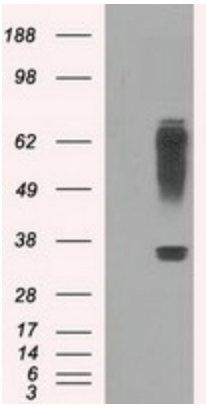
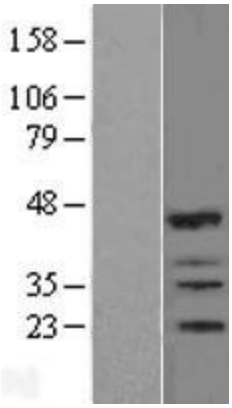
Product images:



Circular map for RC209302



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY RNF144B (Cat# RC209302, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RNF144B(Cat# [TA500704]). Positive lysates [LY405351] (100ug) and [LC405351] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY405351]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209302 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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