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Product datasheet for RC201846

ARIH2 (NM_006321) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARIH2 (NM_006321) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARIH2
Synonyms:	ARI2; TRIAD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC201846 representing NM_006321
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCAGTGGACATGAATAGCCAGGGGTCTGACAGCAATGAAGAGGACTATGACCCAAATTGTGAGGAAG
AGGAAGAAGAAGAAGAAGACGACCCTGGGGACATAGAGGACTATTACGTGGGAGTAGCCAGCGATGTGGA
GCAGCAGGGGGCTGATGCCTTTGATCCCGAGGAGTACCAGTTCACTTGCTTGACCTACAAGGAATCTGAG
GGTGCCCTCAATGAGCACATGACCAGCTTAGCTTCTGTCCTAAAGGTATCTCATTCAGTTGCTAAACTTA
TATTAGTTAATTTCCACTGGCAAGTTTCAGAGATATTGGACAGATACAAGTCCAATTCTGCTCAACTGCT
TGTTGAGGCTCGAGTTCAGCCTAATCCATCAAAACATGTTCCCACATCCCATCCCCCTCACCACTGTGCA
GTGTGTATGCAGTTTGTGCGAAAGGAAAACCTACTCTCTCTGGCCTGTCAGCACCAGTTTTGCCGCAGCT
GCTGGGAGCAGCACTGCTCAGTTCTCGTCAAGGACGGCGTGGGCGTGGGAGTCTCTTGCATGGCTCAGGA
CTGTCCACTCCGTACACCAGAGGACTTTGTGTTTCCATTGCTTCCCAATGAAGAATTGAGAGAGAAATAC
AGGCGCTACCTCTTCAGGGACTATGTGGAGAGTCATTACCAGCTCCAGCTGTGCCCTGGTGCAGACTGCC
CCATGGTTATTCGGGTACAGGAGCCTAGAGCTCGCCGAGTACAGTGCAATCGGTGCAACGAGGTCTTCTG
TTTCAAGTGTCGTCAGATGTATCACGCACCCACAGACTGTGCCACAATCCGGAAATGGCTCACGAAGTGT
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TTGAGAAGAATGGAGGCTGCAATCACATGCAATGCTCCAAATGTAAACACGACTTCTGCTGGATGTGTCT
AGGAGATTGGAAGACTCATGGCAGTGAATACTATGAGTGCAGTCGTTACAAGGAGAATCCTGACATCGTG
AACCAGAGCCAACAAGCCCAGGCGAGGGAAGCCCTCAAGAAGTACTTATTCTACTTTGAGAGGTGGGAAA
ACCACAATAAAAGCTTGCAGCTAGAGGCACAGACATACCAGCGGATTCACGAGAAGATTCAGGAGAGGGT
CATGAACAATCTGGGGACATGGATCGACTGGCAGTACCTACAGAATGCTGCCAAGCTCTTGGCCAAGTGT
CGATACACCCTGCAATACACCTACCCATATGCATATTACATGGAGTCCGGACCCAGGAAGAAGCTGTTTG
AATACCAGCAGGCTCAGCTGGAGGCTGAGATCGAAAACCTCTCATGGAAAGTGGAGCGTGCAGACAGCTA
TGACAGAGGGGACTTGGAGAACCAGATGCATATAGCGGAGCAGCGGAGGAGAACCCTGCTGAAAGATTTC
CATGACACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201846 representing NM_006321
Red=Cloning site Green=Tags(s)

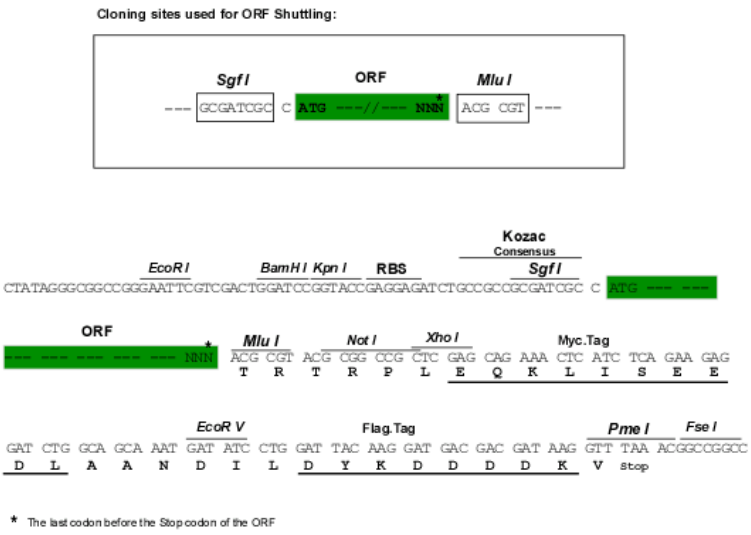
MSVDMNSQGSDSNEEDYDPNCEEEEEEEEDDPGDIEDYYVGVASDVEQQGADAFDPEEYQFTCLTYKESE
GALNEHMTSLASVLKVSHSVAKLILVNFHWQVSEILDRYKSNSAQLLVEARVQPNPSKHVPTSHPPHHCA
VCMQFVRKENLLSLACQHQFCRSCWEQHCSVLVKDGVGVGVSCMAQDCPLRTPEDFVFPLLPNEELREKY
RRYLFRDYVESHYQLQLCPGADCPMVIRVQEPRARRVQCNRCNEVFCFKCRQMYHAPTDCATIRKWLTKC
ADDSETANYISAHTKDCPKCNICIEKNGGCNHMQCSKCKHDFCWMCLGDWKTHGSEYYECSRYKENPDIV
NQSQQAQAREALKKYLFYFERWENHNKSLQLEAQTYQRIHEKIQERVMNNLGTWIDWQYLQNAAKLLAKC
RYTLQYTYPYAYYMESGPRKKLFEYQQAQLEAEIENLSWKVERADSYDRGDLENQMHIAEQRRRTLLKDF
HDT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2876_f03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006321

ORF Size: 1479 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_006321.4

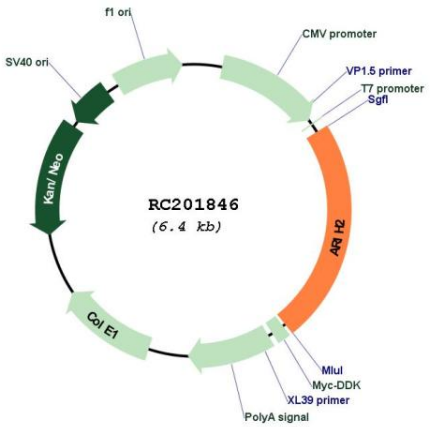
RefSeq Size: 3892 bp

RefSeq ORF: 1482 bp

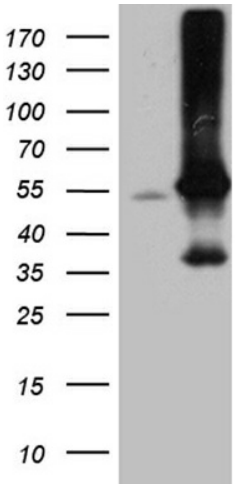
Locus ID: 10425

UniProt ID:	O95376
Cytogenetics:	3p21.31
Domains:	IBR
Protein Families:	Druggable Genome
MW:	57.6 kDa
Gene Summary:	The protein encoded by this gene is an E3 ubiquitin-protein ligase that polyubiquitinates some proteins, tagging them for degradation. The encoded protein upregulates p53 in some cancer cells and may inhibit myelopoiesis. Several transcript variants encoding different isoforms have been found for this gene, although the full-length nature of some of them have not been determined yet. [provided by RefSeq, Nov 2015]

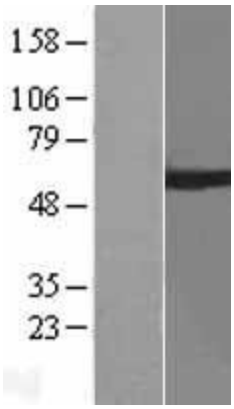
Product images:



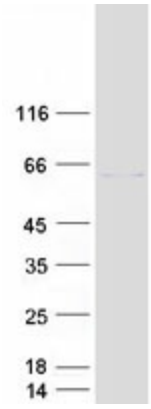
Circular map for RC201846



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ARIH2 (Cat# RC201846, 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-ARIH2 antibody (Cat# [TA811978]). Positive lysates [LY416714] (100ug) and [LC416714] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY416714]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201846 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ARIH2 protein (Cat# [TP301846]). The protein was produced from HEK293T cells transfected with ARIH2 cDNA clone (Cat# RC201846) using MegaTran 2.0 (Cat# [TT210002]).