

Product datasheet for **RC225401**

ARIH2OS (NM_001123040) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	ARIH2OS
Synonyms:	C3orf71
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC225401 representing NM_001123040
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTCGGACAACGTGCCGGCGACGGGGAGCGCCCGGGCCTCCCGGGCGACGGCGAAGGCGGAGTCCCGG
CCCGGCCAGGGAGGCGCGCGGAGAGGCCCCCAGCGGCCAGCCAAGGTAACAAGGCCGTGACGTGCGC
CGCGCACTTACCGGAGCTGCGGCCCTCGCGGCCGCTGAGCCCGAACAAGCCAGACCGGGTCAGGCCGGGC
CAGAGGGACCGGATTGGGGCGAAGCGGCAGCGGAGCGCGGGCCGACGCCGGTCAAGCCCGCGCTGCTT
CCTCCAGAAGAGTCGTCCCCACAGCTCCGGAAGTGCTTGCGCGCGTTGCGTCACTTCCGGATCGGGGTCG
ACCCACGGTCGCTCGGGTCGCGACAGGCTCCCGCTAGAGGGCCTGTTTAGCGCCGCCTCCTTGAAACTT
AGCGCTCTGACCCAGAGTCTGACCAGGGTACGGCAGGCGCCGACCGCGTCTGGAGCCACTATTCGCTAC
CAGCGTCTCCCGTCGAGATGTTTTAACCAGCGCTTCTCACCAGCTTCTCATTCTACTGTTTGTACTC
CGGGATCGGGCACGAGAAGACATCTGGCGTCACTGGAGCAGATAACCATTTGTTTCTCGGCCGCTATCT
GGTCAGAGGGGAGCTGGCCGGGAAATTCTGCCTACACCCCGAGGCGGTGCGAGGGTGGCCCCAGAGCCG
CAACCACACCGGCTTTGCTTCCCTGCCGAGGCTCGTTGCGCGCGCAGTTCTCCGACTTACGGTAC
CGTGCAAGATTGCATCTTAAGTGCCTTGTGAGTTCTTTTACAGTATAGGAGTTGTATCATGACT
TCCAGTTACCTTCTGGGACCGGTTGTCAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC225401 representing NM_001123040
Red=Cloning site Green=Tags(s)

MLGQRAGDGERPGLPGDGEggvPARPGRRAERPPQPAKVNAVTCAAHLPGAASRPLSPNKPDRVRPG
QRDRIGAKRQRRRRADAGQARAASSRRVVPTAPEVLGAVASLPDRGRPTVARVATGSRLEGLFSAASLKL
SALTQSLTRVQAPTASGATIRLPASPVEMFLTSAFLTGF SFHCLYSYGIGHGEDILASVEQITIVSRPLS
GQRAGGPGNSAYTPRRSQGGPRAATTGFRFP CRGLVRRVRLRLTVTVQDCILTALLAVSFHSIGVIMT
SGYLLGPVVK

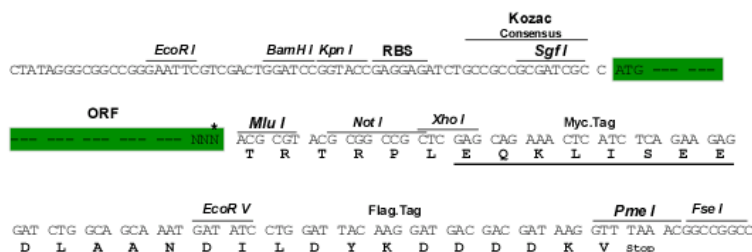
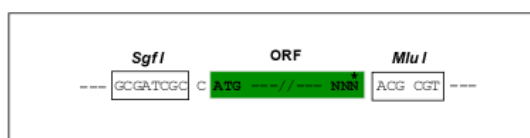
TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8033_e04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001123040

ORF Size: 870 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_001123040.1](#), [NP_00116512.1](#)

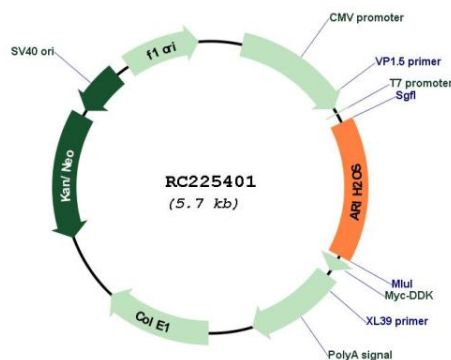
RefSeq ORF: 873 bp

Locus ID: 646450

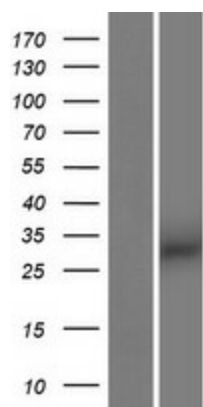
Cytogenetics: 3p21.31

MW: 30.2 kDa

Product images:



Circular map for RC225401



Western blot validation of overexpression lysate (Cat# [LY426595]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225401 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).