

## Product datasheet for **SC116547**

### **ARIH1 (NM\_005744) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ARIH1 (NM_005744) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARIH1
Synonyms:	ARI; HARI; HHARI; UBCH7BP
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene sequence for NM_005744 edited
GAATTCGGCACGAGGCAGCCGCTCAAACGCCAACCGCCGCTCCTGGGGAGGAGCCGCGGCT
CGCGGGGCGGAGCCAGGCCTGCGTCCGGACATCAGCCGGAGCCGGAGCGAGAGCCGGGG
CCTCGGCGTCCCCGCCCTCTCCCGCCTCGGCCAGCGTCCGCCGGGCCCCCGCGCGTCGC
GCCATGGACTCGGACGAGGGCTACAACACGAGTTCGACGAGGACGAGGAGTGCAGTGAG
GAGGACAGCGGCCCGAGGAGGAGGACGAAGACGACGACGAGCCGGACGATGATACC
CTGGACTGTGGCGAGGTGGAGCTGGTGGAGCCCGGGCTGGGCGTGGCGGGGAGCGGGGAC
GGACTGCTGTGCGGGGAGACGGGCGGTGGCGGGCAGCGCTCTGGGGCCCGGCGGTGGC
GGCGGCGGCGGCGGCGGGTGGTGGTGGCGGGCCGGGGCATGAGCAGGAGGAGGATTAC
CGCTACGAGGTGCTCACGGCCGAGCAGATTCTACAACACATGGTGAATGTATCCGGGAG
GTCAACGAGGTGATCCAGAATCCAGCAACTATCACAAGAATACTCCTTAGCCACTTCAAT
TGGGATAAAGAGAAGCTAATGAAAGGTACTTTGATGAAACCTGGAGAAGCTCTTTGCT
GAGTGTGATGTAATTAATCCAAGTAAAAAGTCTCGAACACGCCAGATGAATACAAGGTCA
TCAGCACAGGATATGCCTTGTGAGTCTGCTACTTGAACACCCTAACTCGTATTTCACT
GGCCTTGATGTGACATAAGTTTTGTATGCAAGTCTGGAGTGAATATTTAACTACCAAA
ATAATGGAAGAAGGCATGGGTGAGACTATTTCTGTGCTGCTCATGGTTGTGATATCTTA
GTGGATGACAACACAGTTATGCGCCTGATCACAGATTCAAAAGTTAAATTAAGTATCAG
CATTTAATAACAAATAGCTTTGTAGAGTGAATCGACTGTTAAAGTGGTGTCTGCCCCCA
GATTGCCACCATGTTGTTAAAGTCCAATATCCTGATGCTAAACCTGTTCCGCTGCAAAATGT
GGGCGCAATTTTGTCTTAACTGTGGAGAAAATGGCATGATCCTGTTAAATGTAAGTGG
TTAAAGAAATGGATTAAGAAAGTGTGATGATGACAGTGAACCTCCAATTGGATTGCAGCC
AACACAAAGGAATGTCCCAATGCCATGTCACAATTGAGAAGGATGGTGGTTGTAATCAC
ATGGTCTGTGTAACAGAAATTTGTAAGCAGAGTTTTGCTGGGTGTGCTTGGCCCATGG
GAACCACATGGATCTGCCTGGTACAACGTGTAACCGCTATAATGAGGATGATGCAAAAGCA
GCAAGAGATGCACAGGAGCGATCTAGGGCAGCCCTGCAGAGGTACCTGTTCTACTGTAAT
CGCTATATGAACCACATGCAGAGCCTGCGCTTTGAGCACAAAATATATGCTCAGGTGAAA
CAGAAAATGGAGGAGATGCAGCAGCACAAACATGCTCCTGGATTGAGGTGCAGTTCTGAA
AAGGCAGTTGATGCTCTGCCAGTGTGCTGCCACACTCATGTACTTATGTCTTCGCT
TTCTACCTCAAAAAGAATAACCAGTCCATTATCTTTGAGAATAACCAAGCAGATCTAGAG
AATGCCACAGAGGTGCTCTCGGGCTACCTTGAACGAGATATTTCCAAGATTCTCTGCAG
GATATAAAGCAGAAAGTACAAGACAAGTACAGATACTGTGAGAGTCGACGAAGGGTTTTG
TTACAGCATGTGCATGAAGGCTATGAAAAAGATCTGTGGGAGTACATTGAGGACTGAGAA
TGGCCCTGCATAAAATGAACTCTGAAAACCTTTACCATCTAGAGTGCTCATGCAATAAAA
CAAAACAAACACAAACAAGGAGGCACTAAGCCTATTCTGACACCACTGGTCTGTAGTACC
AGAATTGTTTTGTTAATGGAAAGTTAAGTAAATTATATTGTAATAAAAAGGTAGATAAA
CCATTGTACAACAGTATCTAGGCCGCCAACAAAAGTGTGACAGACACACTAAAAGCCCT
CCAACCTTAACTTGTAACGTAGCTTCATTCTCAAAGCTGACTCCTTTTTTTCTTTTTCC
TTTTCTGAGTGTAGTACAGTAAAAATTTCAAACAGCTCCTTGACACTGCTTTTCATGTT
CAAACCAGCCATTTTGTGTAACCTTTGGTAAAGGACCTCTCCCTTCTCCCTACACAT
ACAGATACACCCACACACAGACTGACTCTTTCTCTCATACCCCAAGGTCATGAGTGAA
TGATGCTTAGTTCCTTGTAAAGAAAATCTTGGGATGGGGAAAGGGTAGGCAGCAAGAGG
ATTCAACAAACGAAAAACATAAAAACTTTGTATATGACTTTTAAAAAAGAGGACAACAC
AGTATTTTTCAAATTTGATATAGCGCATATGCATGGACAAAGCAAGCGTGGCACGTGTT
TGCATAATGTTAATTACAAAAAATTTTATTCTTTAAAAATCTTCAAAAAAAAAAAAA
AAAAACTCGAC
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_005744 unedited  
 GGTTCCGACGACTTAGGATAGGGNTGACNGCGTAATTCGTACGAGGCAGCCGNCTAACG  
 CCAACCGCCGCTCCTGGGGACGAGCCGCGGCTCGCGGGGCCGAGCCAGGCCTGCGTCCG  
 GACATCAGCCGGAGCCGGAGCGAGAGCCGGGGCCCTCGGCGTCCCCGCCCTCTCCCCGCT  
 CGGCCAGCGTCCGCCGGGCCCGCGCGTCCGCCATGGACTCGGACGAGGGCTACAAC  
 ACGAATTCGACGAGGACGAGGAGTGCAGTGAGGAGGACAGCGGCCGAGGAGGAGGAGG  
 AGCAAGACGACGAGCCGGACGATGATACCTGGATCTGGGGAGGTGGAGCTGGTGG  
 AGCCCCGGCTGGCGTCCGCCGGGAGCGGGACGGACTGCTGTGCGGGGAGACGGGCGGTG  
 GCGGCGGACGCGCTCTGGGGCCCGCGGTGGCGCGGCGCGCGGCGGCGGCGGTGGTGGT  
 GCGGGCCGGGCATGAGCAGGAGGAGGATTACCCTACGAGGTGCTCACGGCCGAGCAGA  
 TTCTACAACACATGGTGAATGTATCCGGGAGGTCAACGAGGTATCCAGAATCCAGCAA  
 CTATCACAAGAATACTCCTTAGCCACTTCAATTGGGATAAAGAGAAGCTAATGAAAGGT  
 ACTTTGATGAAACCTGGAGAAGCTCTTGCTGAGTGCATGTAATTAATCCAAGTGAAA  
 AGTCTCGAACACCCAGATGAATACAAGGTCATCAGCACAGGATATGCCTTGTCAGATCT  
 GCTACTTGAACCTCACTCGTATTTCACTGGCCTCTGATGTGGACATAAGTTTTGTA  
 TGCAAGTCTGGAGTGAATATCTAACTACAAATTATGGAAGAGGCATGGGTCAGACTATT  
 TNGGCCCTGCTCATGTTGGAATCTTAATGAAGACACCA

**3' Read Nucleotide Sequence:**

>OriGene 3' genomic read for NM\_005744 unedited  
 GTACATTATGGACCGCGCCGATTCTANGATCGATTTTTTTTTTTTTTTTTTTGAAGATTT  
 TAAAGAATAAATATTTTTTTGTAATTAACATTATGCAAACACGTGCCACGCTTGCTTTG  
 TCCATGCATATGCGCTATATACAATTTTAAAAAATACTGTGTTGCTCTTGTTTTAAAA  
 GTCATATACAAAGTTTTATGTTTTCGTTTTGTTGAATCCTTCTGCTGCCTACCCCTTTC  
 CCCATCCCAAGATTTTCTTTACAAGGAATAAGCATCATTCACTCATGACCTTGGGGTAT  
 GAGAGAAAAGAGAGTCAGTCTGTGTGTGGGTGTATCTGTATGTGTAGGGGAGGAAGGGGAA  
 GAGGNCCNNNNCCNNNGNNAACANAATGGCTGGNNTGAACATGAAAAGCAGGGTCAAGG  
 AGCTGNTTGAATTTTAACTGTACTACACTCAGGAAAAGGAAAAAGAAAAAAGGAGTC  
 AGCTTTGAGAATGAAGCTACGTTACAAGTTAAAGTTGGAGGGCTTTTAGTGTGCTGTCA  
 CACTTTTGTGGCGCCTAACATACTGTTGTACAATGGGTTATCTACCTTTTTATTACAA  
 TATGAATTACTTAACTTTCCATTAACAAAACAATTCTGGGACTACATACCAGTGGTGTG  
 AGAATAGGCTTAGTGCCTCCTTGTGGGTTTGGTTTGGTTTAAATGCGGGAGCACTTTT  
 AGATGGGAAAGTTATTCGAATTTATTTTTATAGCTGGCCCTTCTCGTTCCTTCATGGA  
 CTTCCGCCAAATCTTTCTAAAGGCCTGGATGCCAAGGCTGGACCTAAAACCTTTCATCG  
 ACTATTCAAGAGGCAAGAAGCTTGGTTTGTCTCTTTTCTGCCTTTAATCCGGACGGGCAA  
 GTTCGGGAAAAAATATTGGTAAAGAGGGAGCCTGG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_005744

**Insert Size:**

2750 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_005744.2](#), [NP\\_005735.1](#)

**RefSeq Size:** 2178 bp

**RefSeq ORF:** 1674 bp

**Locus ID:** 25820

**UniProt ID:** [Q9Y4X5](#)

**Cytogenetics:** 15q24.1

**Domains:** IBR

**Protein Families:** Druggable Genome

**Gene Summary:**

E3 ubiquitin-protein ligase, which catalyzes ubiquitination of target proteins together with ubiquitin-conjugating enzyme E2 UBE2L3 (PubMed:15236971, PubMed:21532592, PubMed:24076655, PubMed:27565346, PubMed:23707686). Acts as an atypical E3 ubiquitin-protein ligase by working together with cullin-RING ubiquitin ligase (CRL) complexes and initiating ubiquitination of CRL substrates: associates with CRL complexes and specifically mediates addition of the first ubiquitin on CRLs targets (PubMed:27565346). The initial ubiquitin is then elongated by CDC34/UBE2R1 and UBE2R2 (PubMed:27565346). E3 ubiquitin-protein ligase activity is activated upon binding to neddylated cullin-RING ubiquitin ligase complexes (PubMed:24076655, PubMed:27565346). Plays a role in protein translation in response to DNA damage by mediating ubiquitination of EIF4E2, the consequences of EIF4E2 ubiquitination are however unclear (PubMed:25624349). According to a report, EIF4E2 ubiquitination leads to promote EIF4E2 cap-binding and protein translation arrest (PubMed:25624349). According to another report EIF4E2 ubiquitination leads to its subsequent degradation (PubMed:14623119). Acts as the ligase involved in ISGylation of EIF4E2 (PubMed:17289916).[UniProtKB/Swiss-Prot Function]