

Product datasheet for **MC218921**

Arih1 (NM_019927) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arih1 (NM_019927) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Arih1
Synonyms:	Ari; Ari1; AU021774; Hari; Hhari; Ubch7bp; Uip77
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC218921 representing NM_019927
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACTCGGACGAGGGCTACAACACTACGAGTTCGACGAGGACGAGGAGTGCAGCGAGGAGGACAGCGGCCG
 CCGAGGAGGAGGAGGACGACGACGAGGACGAGCCGGACGATGATAACCTGGATCTGGCGGAGGTGGAGCT
 GGTGGAGCCCGGCTGGCGCTCGCGGGGAGCGAGACGGACTGCTGTGCGGGGAGACTGGCGGTGGCGGC
 GGCAGCGCTCTGGGTCCGGGAGGCGCGCGCGGCTGGCGGTGGCGCGCGGCCCGGGACACGAGCAGG
 AGGAGGATTACCGCTACGAGGTGCTCACGGCCGAACAGATCCTGCAGCACATGGTGAATGTATCCGGGA
 GGTCAACGAGGTCATCCAGAATCCAGCAACTATCACGAGAATACTCCTTAGCCACTTCAATTGGGATAAA
 GAGAAGCTAATGGAAAGTACTTTGATGGAAACCTGGAGAAGCTCTTTGCTGAGTGCATGTAATTAATC
 CAAGTAAAAAGTCTCGAAGTCCGAGATGAATACAAGGTCATCGGCACAGGATATGCCGTGCAGATCTG
 CTACTTGAAGTACCTAAGTATTTACTGGCCTTGAATGTGGACATAAGTTTTGATGCAGTGTGG
 AGTGAATATTTAACTACAAAAATAATGGAGGAAGGCATGGGGCAGACTATTTCTGTCCTGCGCATGGTT
 GTGATATCTTAGTGGATGACAACACAGTTATGCGCCTGATCACAGATCCAAAGTTAAGTTAAAAATCA
 ACATTTAATAACAAATAGCTTTGTAGAGTGCAACCGACTGTTAAAGTGGTGTCTGCCCCAGATTGCCAC
 CATGTTGTTAAAGTCCAGTATCCTGATGCAAAACAGTTCGCTGCAAAATGTGGCCGCCAGTTTTGCTTTA
 ACTGTGGTGAAAATTGGCATGATCCAGTTAAATGTAAGTGGTGAAGAAGTGGATTAAAAAGTGTGATGA
 TGACAGTGAAACTTCTAATTGGATTGCAGCTAACACAAAGGAATGTCCAAATGCCATGTCACAATTGAG
 AAGGATGGCGGTTGTAATCACATGGTCTGTGTAACAGAACTGTAAGCAGAATTTTCTGGTGTGTC
 TTGGCCCTTGGGAACCGCATGGATCTGCCTGGTACAACCTGTAACCGCTATAATGAGGATGATGCAAAAGC
 AGCAAGAGATGCCCAAGAGCGATCTAGGGCGGCCCTGCAGAGATACCTGTTCTACTGTAATCGCTATATG
 AACACATGCAGAGTCTACGCTTCGAGCATAAGCTGTATGCTCAGGTGAAACAGAAGATGGAGGAGATGC
 AGCAGCACAAATGTCCTGGATCGAGGTGCAGTTCCTGAAGAAAGCAGTTGATGTCCTCTGCCAGTGTGC
 TGCCCACTCATGTACACTTATGTCTTCGCTTTCTACCTCAAAAAGAATAACAGTCCATTATCTTTGAG
 AATAATCAAGCAGATCTAGAAAATGCCACAGAGGTGCTTTGCGGCTACCTGAACGAGATATTTCCCAAG
 ATTCTCTGCAAGATATAAAGCAGAAAGTCCAAGATAAGTACAGATACTGTGAGAGTGCACGAAGGGTTTT
 GTTACAGCATGTGCATGAAGGCTATGAAAAGATCTGTGGGAGTACATTGAGGAC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_019927

Insert Size: 1668 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_019927.2](#), [NP_064311.2](#)

RefSeq Size: 6435 bp

RefSeq ORF: 1668 bp

Locus ID: 23806

UniProt ID: [Q9Z1K5](#)

Cytogenetics: 9 B

Gene Summary: E3 ubiquitin-protein ligase, which catalyzes ubiquitination of target proteins together with ubiquitin-conjugating enzyme E2 UBE2L3. 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. The initial ubiquitin is then elongated by CDC34/UBE2R1 and UBE2R2. E3 ubiquitin-protein ligase activity is activated upon binding to neddylated cullin-RING ubiquitin ligase complexes. Plays a role in protein translation in response to DNA damage by mediating ubiquitination of EIF4E2, the consequences of EIF4E2 ubiquitination are however unclear. According to a report, EIF4E2 ubiquitination leads to promote EIF4E2 cap-binding and protein translation arrest. According to another report EIF4E2 ubiquitination leads to its subsequent degradation. Acts as the ligase involved in ISGylation of EIF4E2.[UniProtKB/Swiss-Prot Function]