

Product datasheet for **RG208707**

ARIH1 (NM_005744) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARIH1 (NM_005744) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ARIH1
Synonyms:	ARI; HARI; HHARI; UBCH7BP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208707 representing NM_005744
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACTCGGACGAGGGCTACAACACTACGAGTTCGACGAGGACGAGGAGTGCAGTGAGGAGGACAGCGGCC
 CCGAGGAGGAGGAGGACGAAGACGACGACGAGCCGGACGATGATACCCTGGATCTGGGCGAGGTGGAGCT
 GGTGGAGCCCGGCTGGGCGTCGCGCGGGAGCGGGACGGACTGCTGTGCGGGGAGACGGCGGTGGCGGC
 GGCAGCGCTCTGGGGCCCGCGGTGGCGCGCGCGCGCGCGCGCGGTGGTGGCGGGCCGGGCATG
 AGCAGGAGGAGGATTACCGCTACGAGGTGCTCACGGCCGAGCAGATTCTACAACACATGGTGAATGTAT
 CCGGGAGGTCAACGAGGTATCCAGAATCCAGCAACTATCACAAGAATACTCCTTAGCCACTTCAATTGG
 GATAAAGAGAAGCTAATGAAAGGTACTTTGATGGAACTGGAGAAGCTCTTTGCTGAGTGTATGTAA
 TTAATCCAAGTAAAAGTCTCGAACACGCCAGATGAATAACAAGGTATCAGCACAGGATATGCCTTGTC
 GATCTGCTACTTGAACCTAACCTCGTATTTACTGGCCTTGAATGTGGACATAAGTTTTGTATGCAG
 TGCTGGAGTGAATATTTAACTACCAAAATAATGGAAGAAGGCATGGGTACAGACTATTTCTGTCTCTGCTC
 ATGGTTGTGATATCTTAGTGGATGACAACACAGTTATGCGCTGATCACAGATTCAAAAGTTAAATTTAA
 GTATCAGCATTTAATAACAAATAGCTTTGTAGAGTGCAATCGACTGTTAAAGTGGTGTCTGCCCCAGAT
 TGCCACCATGTTGTTAAAGTCCAATATCCTGATGCTAAACCTGTTGCTGCAAAATGTGGGCGCAATTTT
 GCTTTAACTGTGGAGAAAATTGGCATGATCCTGTTAAATGTAAGTGGTTAAAGAAATGGATTAATAAGTG
 TGATGATGACAGTGAAACCTCCAATTGGATTGCAGCCAACACAAGGAATGTCCCAATGCCATGTCACA
 ATTGAGAAGGATGGTGGTTGTAATCACATGGTCTGCTGTAACCAAGTAAAGCAGAGTTTGTCTGGG
 TGTGCTTGGCCATGGGAACCACATGGATCTGCCTGTTACAACCTGTAACCGCTATAATGAGGATGATGC
 AAAGGCAGCAAGAGATGCACAGGAGCGATCTAGGGCAGCCCTGCAGAGGTACCTGTTCTACTGTAATCGC
 TATATGAACCACATGCAGAGCCTGCGCTTTGAGCACAACTATATGCTCAGGTGAAAACAGAAAATGGAGG
 AGATGCAGCAGCACAACTGTCCTGGATTGAGGTGCAGTTCCTGAAGAAGGCAGTTGATGTCCTCTGCCA
 GTGTCGTGCCACACTCATGTACACTTATGTCTTCGCTTTCTACCTCAAAAAGAATAACCAGTCCATTATC
 TTTGAGAATAACCAAGCAGATCTAGAGAATGCCACAGAGGTGCTCTCGGCTACCTTGAACGAGATATTT
 CCCAAGATTCTCTGCAGGATATAAAGCAGAAAGTACAAGACAAGTACAGATACTGTGAGAGTCGACGAAG
 GGTTTTGTACAGCATGTGCATGAAGGCTATGAAAAGATCTGTGGGAGTACATTGAGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG208707 representing NM_005744
 Red=Cloning site Green=Tags(s)

MDSDEGYNYEFDEDEECSEEDSGAEEDDEDDDEPDDDLDELGEVELVEPGLVGGGERDGLLCGETGGGG
 GSALPGGGGGGGGGGGGGPGHEQEEDYRYEVLTAEQILQHMVECIREVNEVIQNPATITRILLSHFNW
 DKEKLMERYFDGNLEKLF AECHVINPSKKSRTQMNRSSAQDMPQCICYLNYPNSYFTGLECGHKFCMQ
 CWSEYLTTKIMEEGMQTISCPAHGCDILVDDNTVMRLITDSKVKLKYQHLITNSFVECNRLKWCAPD
 CHHVVKVQYPPDAKPVRCKCGRQFCFNCGENWHDPVKCKWLKKWIKKDDSETSNWIAANTKECPKCHVT
 IEKDGGCNHMVCRNQCKAEFCWVCLGPWEPHGS AWYNCNRYNEDDAKAARDAQERSRAALQRYLFYCNR
 YMNHMQSLRFEHKL YAQVKQKMEEMQQHNSWIEVQFLKKAVDVLCQCRATLMTYVVFAYLKKNNQSII
 FENNQADLENATEVLSGYLERDISQDSLQDIKQKVQDKYRYCESRRRVLLQHVHEGYEKDLWEYIED

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_005744

ORF Size: 1671 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 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](#)

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.

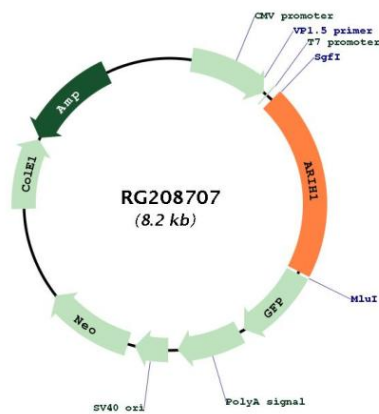
RefSeq: [NM_005744.5](#)
 RefSeq Size: 2178 bp
 RefSeq ORF: 1674 bp
 Locus ID: 25820
 UniProt ID: [Q9Y4X5](#)
 Cytogenetics: 15q24.1

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]

Product images:



Circular map for RG208707