**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for MG207099

## Arih1 (NM_019927) Mouse Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Arih1 (NM_019927) Mouse Tagged ORF Clone |
| **Tag:** | TurboGFP |
| **Symbol:** | Arih1 |
| **Synonyms:** | Ari; Ari1; AU021774; Hari; Hhari; Ubch7bp; Uip77 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

View online »

**ORF Nucleotide Sequence:**

>MG207099 representing NM_019927
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGGAATGTATCCGGGAGGTCAACGAGGTCATCCAGAATCCAGCAACTATCACGAGAATACTCCTTA
GCCACTTCAATTGGGATAAAGAGAAGCTAATGGAAAGGTACTTTGATGGAAACCTGGAGAAGCTCTTTGC
TGAGTGTCATGTAATTAATCCAAGTAAAAAGTCTCGAACTCGCCAGATGAATACAAGGTCATCGGCACAG
GATATGCCGTGTCAGATCTGCTACTTGAACTACCCTAACTCGTATTTTACTGGCCTTGAATGTGGACATA
AGTTTTGTATGCAGTGCTGGAGTGAATATTTAACTACAAAAATAATGGAGGAAGGCATGGGGCAGACTAT
TTCGTGTCCTGCGCATGGTTGTGATATCTTAGTGGATGACAACACAGTTATGCGCCTGATCACAGATTCC
AAAGTTAAGTTAAAATATCAACATTTAATAACAAATAGCTTTGTAGAGTGCAACCGACTGTTAAAGTGGT
GTCCTGCCCCAGATTGCCACCATGTTGTTAAAGTCCAGTATCCTGATGCAAAACCAGTTCGCTGCAAATG
TGGCCGCCAGTTTTGCTTTAACTGTGGTGAAAATTGGCATGATCCAGTTAAATGTAAGTGGTTGAAGAAG
TGGATTAAAAAGTGTGATGATGACAGTGAAACTTCTAATTGGATTGCAGCTAACACAAAGGAATGTCCCA
AATGCCATGTCACAATTGAGAAGGATGGCGGTTGTAATCACATGGTCTGTCGTAACCAGAACTGTAAAGC
AGAATTTTGCTGGGTGTGTCTTGGCCCTTGGGAACCGCATGGATCTGCCTGGTACAACTGTAACCGCTAT
AATGAGGATGATGCAAAGGCAGCAAGAGATGCCCAAGAGCGATCTAGGGCGGCCCTGCAGAGATACCTGT
TCTACTGTAATCGCTATATGAACCACATGCAGAGTCTACGCTTCGAGCATAAGCTGTATGCTCAGGTGAA
ACAGAAGATGGAGGAGATGCAGCAGCACAACATGTCCTGGATCGAGGTGCAGTTCCTGAAGAAAGCAGTT
GATGTCCTCTGCCAGTGTCGTGCCACACTCATGTACACTTATGTCTTCGCTTTCTACCTCAAAAAGAATA
ACCAGTCCATTATCTTTGAGAATAATCAAGCAGATCTAGAAAATGCCACAGAGGTGCTTTCGGGCTACCT
TGAACGAGATATTTCCCAAGATTCTCTGCAAGATATAAAGCAGAAAGTCCAAGATAAGTACAGATACTGT
GAGAGTCGACGAAGGGTTTTGTTACAGCATGTGCATGAAGGCTATGAAAAAGATCTGTGGGAGTACATTG
AGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

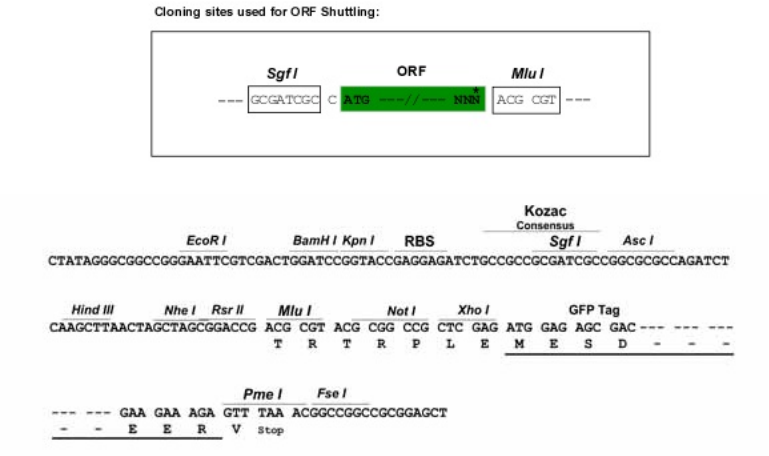
>MG207099 representing NM_019927
Red=Cloning site Green=Tags(s)

MVECIREVNEVIQNPATITRILLSHFNWDKEKLMERYFDGNLEKLFAECHVINPSKKSRTRQMNTRSSAQ
DMPCQICYLNYPNSYFTGLECGHKFCMQCWSEYLTTKIMEEGMGQTISCPAHGCDILVDDNTVMRLITDS
KVKLKYQHLITNSFVECNRLLKWCPAPDCHHVVKVQYPDAKPVRCKCGRQFCFNCGENWHDPVKCKWLKK
WIKKCDDDSETSNWIAANTKECPKCHVTIEKDGGCNHMVCRNQNCKAEFCWVCLGPWEPHGSAWYNCNRY
NEDDAKAARDAQERSRAALQRYLFYCNRYMNHMQSLRFEHKLYAQVKQKMEEMQQHNMSWIEVQFLKKAV
DVLCQCRATLMYTYVFAFYLKKNNQSIIFENNQADLENATEVLSGYLERDISQDSLQDIKQKVQDKYRYC
ESRRRVLLQHVHEGYEKDLWEYIED

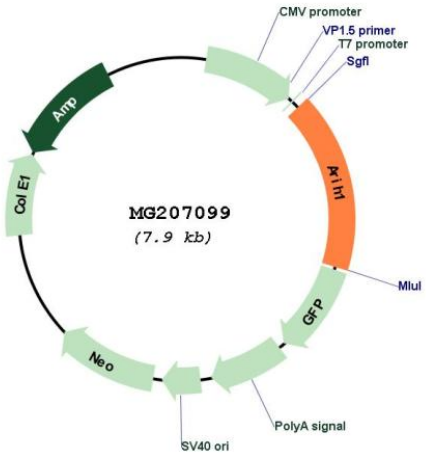
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**Plasmid Map:**




**ACCN:** NM_019927

**ORF Size:** 1335 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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_019927.1, NP_064311.1 |
| **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] |