

Product datasheet for **RR212998**

Arih2 (NM_001012275) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arih2 (NM_001012275) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arih2
Synonyms:	ARI2; TRIAD1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR212998 representing NM_001012275
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCCGTGGACATGAACAGCCAAGGGTCTGACAGCAATGAAGAGGACTATGACCCAACTGTGAGGAAG
 AGGAAGAAGAGGAAGAGGACCCTGGGGACATAGAGGACTACTATGTTGGGAGTAGCCAGTGATGTGGAGCA
 GCAGGGGGCTGATGCTTTTATCCCGAAGAGTATCAATCACTTGCTTGACCTATAAGGAGTCTGAGGGC
 GCCCTCCATGAGCATATGACCAGCTTAGCCTCTGCCTAAAGGTATCTCATTAGTTGCAAAGCTTATAT
 TAGTTAATTTCCACTGGCAAGTCTCAGAGATTCTGGACAGGTACAGGTCTAATTCTGCTCAGCTGCTTGT
 TGAGGCGCGAGTTCAACCTAATCCATCCAAACAGTCCCCACAGCCACCCCTCACCCTGTGCAGTG
 TGTATGCAGTTTGTGCGGAAGGAAAACCTGCTCTCTGACCTGCCAGCATCAGTTTTGCCGAAGCTGTT
 GGGAGCAACATTGCTCAGTCTCGTCAAAGATGGTGTCCGGTAGGAATCTCATGTATGGCTCAGGATTG
 TCCGCTTCGAACACCAGAGGACTTTGTGTTTCCCTTGCTTCCCAACGAAGAGTTGAGAGATAAATACAGG
 CGCTACCTCTTTAGGGACTATGTGGAGAGTCAATACCAGCTCCAGCTGTGCCCTGGTGCAGACTGCCCA
 TGGTTATTCGGGTACAGGAGCCGAGAGCTCGCCGAGTGCAGTGCATCGGTGCAACGAGGCTCTTCTGTT
 CAAGTGTGACAGATGTATCACGCCCCACAGACTGCGCCACAATCCGAAATGGCTCACCAAGTGTGCG
 GACGACTCCGAAACAGCTAACTACATTAGTGCTCACACTAAAGACTGTCCCAAGTGAACATCTGTATCG
 AGAAGAATGGAGGCTGCAATCACATGCAATGCTCCAAGTGAAGCATGACTTCTGCTGGATGTGTCTAGG
 AGACTGGAAGACGCATGGTAGTGACTATGAATGTAGTCGGTACAAGGAGAATCTGCATTGTCAAC
 CAGAGCCAGCAAGCACAGGCCAGGGAGGCCCTCAAGAAGTACTTGTCTACTTTGAGAGGTGGGAAAATC
 ACAAAAAAGCTTGCAGCTGGAGGCACAAACATACCAGCGGATTACAGAGAAGATTCAAGAGGAGGTTAT
 GAACAATCTGGGAACGTGGATTGACTGGCAGTACCTGCAGAATGCCGCAAGCTGTTGGCCAAGTGTGCA
 TACACCCTGCAATATACCTATCCATATGCATACTACATGGAATCCGGCCCCAGGAAGAAGCTGTTTGAAT
 ACCAGCAGGCTCAGCTGGAGGCTGAGATCGAAAACCTTTCATGGAAGTTGAGCGTGCAGACAGCTATGA
 CAGAGGGGACTTGGAAAACCAGATGCACATAGCAGAGCAGCGGAGAAGAACCCTGCTAAAGGATTTTAC
 GACACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR212998 representing NM_001012275
 Red=Cloning site Green=Tags(s)

MSVDMNSQGSDSNEEDYDPNCEEEEEEDPGDIEDYYVGVASDVEQQGADAFDPEEYQFTCLTYKESEG
 ALHEHMTSLASALKVSHSVAKLILVNFHWQVSEILDYRNSNSAQLLVEARVQPNPSKHVPTAHPPHCAV
 CMQFVRKENLLSLTCQHQFCRSCWEQHCSVLKDGVGVGISCMADQCLRTPEDFVFPLLPNEELRDKYR
 RYLFRDYVESHYQLQLCPGADCPMIVRVQEPARRRVQCNRCNEVFCFKCRQMYHAPTDCATIRKWLTKCA
 DDSETANYISAHTKDCPKCNICIEKNGGCNMQSKCKHDFCWMLGDWKTGHSEYYECSRYKENPDIVN
 QSQAQAREALKKYLFFYFERWENHNKSLQLEAQTQRIHEKIQRVMNMLGTWIDWQYLQNAAKLLAKCR
 YTLQYTPYAYMESGPRKLLFEYQQAQLEAEIENLSWKVERADSYDRGDLENQMHIAEQRRRTLLKDFH
 DT

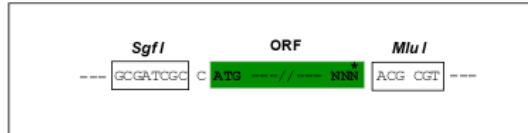
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

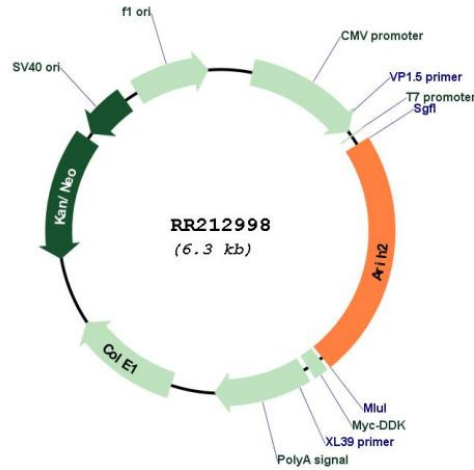
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001012275

ORF Size: 1476 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.

RefSeq: [NM_001012275.2](#), [NP_001012275.1](#)

RefSeq Size: 3755 bp

RefSeq ORF: 1479 bp

Locus ID: 316005

Cytogenetics: 8q32

MW: 57.7 kDa