

Product datasheet for **RC216294**

ARID5A (NM_212481) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	ARID5A
Synonyms:	MRF-1; MRF1; RP11-363D14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC216294 representing NM_212481
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCAGCCCTGTCAAAGGGAACAGGAAGCAGTCCACGGAGGGTGACGCCCTAGACCCACCTGCATCCC
 CCAAACCTGCTGGCAAGCAGAACCGAATCCAGAACCCCATCTCGCTGGAGGACTCCCCGAGGCAGGCGG
 GGAGCGGGGAGGAGCAGGAGCGGGAGGAGGAGCAGGCCCTCCTGGTCAAGCTTACAAGTTATGAAG
 GAGCGACACACGCCCATCGAGAGGGTGCCCATCTCGGCTTCAAGCAGATTAACCTGTGGAAGATCTACA
 AAGCAGTGGAGAAGCTGGGGCCTATGAGCTGGTGACCGGGCGCCCTCTGGAAGAAGCTGTACGACGA
 GCTGGGGGGCAGCCAGGCAGCACCAAGCGGGCCACGTGCACGCGCCCACTACGAGAGGGTGGTCTCG
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 AGATGGCTAAGGAGAACAGGGGGATGATGGGGCCACCAGAGGCCGAAGAAGGCCAAGGAGGAGCGCG
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 CGCCATGGGGCAGAGCCCAGGCGTCCCAGCTGTTACCTCCCAGAGAGTCCCAGAGCCCCAAAGGGC
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 GGAGGCGCAGGCAGGCCCTGCCCGCAGCCCATCTTCAAGGGCTGCTTCTACACCCACCCACCCAG
 GTGCTGAAGCTGTGAGCCAGCACCAGGACTTCTTCTAGACTTAAAGATGGGGTGTATTGGGGC
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 TGCGTTCCATAAAGGTGGTCCAGAAAGGGCATCCTTACCCAAAGCCAAAGCCTGCTGGGTGTCCCC
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 GGAGGCGGATGCCAAGAAGTGTGGGGCCAAACCTGCAGGGTCCGGCCTGGTCTCCTGCCTTCTGGCCCA
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 CCCCAGGCCCTTGAAGGGCCAGGCTGCACTCCCTTCAAGCCCTGGTGCATCCCGGCTTCCCGGCCCA
 CTTCTGGCCACCGCAGGCCCTCGCCATGGCCGCTGGCCTGATGCACTTCCCCCAACGTCTTCGAC
 AGTGCCCTCCGCCACAGACTTTGCCCGCCTCATCTGCCTGGCAGCACCACCAGTCAACCTATGCAG
 CGCCCACTTCTCCACCTCAACCAAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC216294 representing NM_212481
 Red=Cloning site Green=Tags(s)

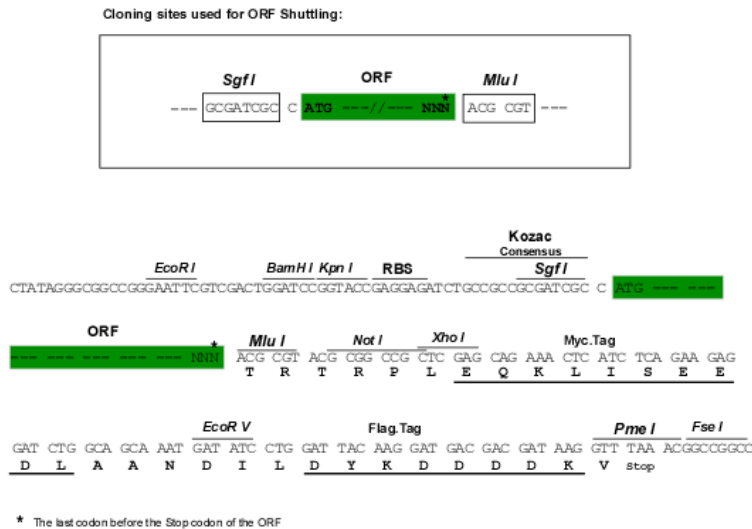
MAAPVKGNRKQSTEGDALDPPASPKPAGKQNGIQNPISLEDSPEAGGEREEEQEREEEQAFVLVSLYKFMK
 ERHTPIERVPHLGFQINLWKIYKAVEKLGAYELVTGRRLWKNVYDELGGSPGSTSAATCTRRHYERLVL
 PYVRHLKGEDDKPLPTSKPRKQYKMAKENRGGDATERPKKAKEERRMDQMMPGKTKADAADPAPLPSQE
 PPRNSTEQQLASGSSVSFVGASGCPEAYKRLSSFYCKGTHGIMSPLAKKLLAQVSKVEALQCQEEGC
 RHGAEPQASPAVHLPESPOQSPKGLTENSRLTPQEGQLQAPGGSLEEAQAGPCPAAPIFKGCIFYTHPTE
 VLKPVSQHPRDFSRDKDGVLLGPPGKEGLSVKEPQLVMGGDANRPSAFHKGSRKILYKPKACWVSP
 MAKVPAESPTLPPTFPSPGLGSKRSLLEEAAHSGKRLRAVSPFLKEADAKKCGAKPAGSLVSCLLGP
 ALGPVPEAYRGTMLHCLNFTGTPGLKGQAALPFSPLVIPAFPAHFLATAGPSPMAAGLMHFPPTSF
 SALRHRLCPASSAWHAPPVTTYAAPHFHLNKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8017_e10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_212481

ORF Size: 1782 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.

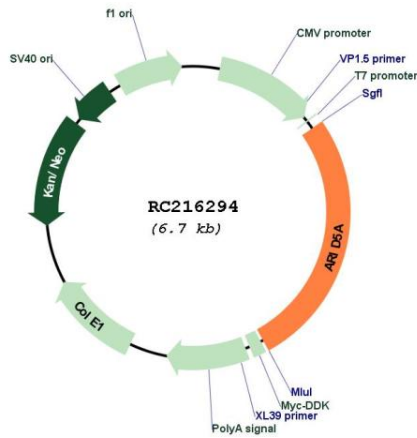
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_212481.3](#)

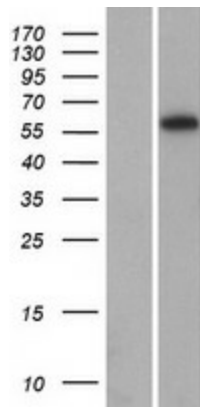
RefSeq Size: 2223 bp
 RefSeq ORF: 1785 bp
 Locus ID: 10865
 UniProt ID: [Q03989](#)
 Cytogenetics: 2q11.2
 MW: 63.9 kDa

Gene Summary: Members of the ARID protein family, including ARID5A, have diverse functions but all appear to play important roles in development, tissue-specific gene expression, and regulation of cell growth (Patsialou et al., 2005 [PubMed 15640446]). [supplied by OMIM, Mar 2008]

Product images:



Circular map for RC216294



Western blot validation of overexpression lysate (Cat# [LY403951]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216294 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).