

## Product datasheet for **RG216294**

### ARID5A (NM\_212481) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ARID5A (NM_212481) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ARID5A
Synonyms:	MRF-1; MRF1; RP11-363D14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG216294 representing NM\_212481  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAGCCCCTGTCAAAGGGAACAGGAAGCAGTCCACGGAGGGTGACGCCCTAGACCCACCTGCATCCC  
 CCAAACCTGCTGGCAAGCAGAACGGAATCCAGAACCCATCTCGCTGGAGGACTCCCCGAGGCAGGCGG  
 GGAGCGGGAGGAGGAGCAGGAGCGGGAGGAGGAGCAGGCCTTCTGGTACGCCTCTACAAGTTCATGAAG  
 GAGCGACACAGCCCATCGAGAGGGTGCCCATCTCGGCTTCAAGCAGATTAACCTGTGGAAGATCTACA  
 AAGCAGTGGAGAAGCTGGGGCCATGAGCTGGTGACCGGGCGCCGCTCTGGAAGAAGCTGTACGACGA  
 GCTGGGGGCGAGCCAGGCAGCACCAGCGCGGCCACGTGCACGCGCCGCACTACGAGAGGCTGGTCTG  
 CCATACGTGCGGCACCTGAAGGGGGAGGATGACAAGCCGCTGCCACCTCCAAGCCAGGAAACAGTACA  
 AGATGGCTAAGGAGAACAGGGGGATGATGGGGCCACCGAGAGGCCGAAGAAGGCCAAGGAGGAGCGGCG  
 CATGGACCAGATGATGCCAGGAAAGACCAAGCAGATGCTGCTGACCCAGCACCCTCCAGCCAGGAG  
 CCCCCAGGAACAGCACAGAACAGCAGGGCCTGGCCTCTGGGTCTTCTGTGTCTTTGTGGGTGCCAGCG  
 GCTGTCTGAGGCCTACAAGCGGCTCTATCCAGCTTCTACTGCAAGGGGACACACGGCATCATGTACC  
 ACTGGCCAAAAAGAAGCTCCTGGCCAGGTGAGCAAGGTGGAGGCCTTGCAGTGCCAGGAGGAGGGCTGC  
 CGCCATGGGGCAGAGCCCGAGGCGTCCCGAGCTGTTACCTCCCAGAGAGTCCCAGAGCCCAAAGGGC  
 TGACTGAGAACTCCAGGCACCGGCTGACCCCTCAGGAGGGATTGCAGGCCCCAGGTGGCAGCCTCAGAGA  
 GGAGGCGCAGGCAGGCCCTGCCGGCAGCCCCATCTTCAAGGGCTGCTTACACCCACCCACCGAG  
 GTGCTGAAGCCTGTCAGCCAGCACCAGGGACTTCTTCTAGACTTAAAGTGGGGTGTCTATTGGGGC  
 CTCTTGCCAAAGAGGGGCTGTCAGTGAAGAGCCCCAGCTGGTGTGGGGCGGAGACGCTAACCGCCCTTC  
 TCGGTTCCATAAAGGTGGCTCCAGAAAGGCATCCTCTACCCCAAGCCAAAGCCTGCTGGGTGTCCCCC  
 ATGGCCAAAGTCCAGCCGAGAGCCCCAGCTCCCGCCACCTTCCCAGTAGCCAGGCCTGGGCAGCA  
 AGCGCAGCCTGGAGGAAGAGGGTGTGCCACAGTGGGAAGAGACTGCGGGCCGTGTCTCCCTTTCTTAA  
 GGAGGCGGATGCCAAGAAGTGTGGGGCCAACTGCAGGGTCCGGCTGGTCTCTGCTTCTGGGCCCA  
 GCCCTGGGGCCTGTGCCCCAGAGGCTACAGGGGACCATGCTGCACTGCCCGTGAACCTCACTGGCA  
 CCCCAGGGCCCTGAAGGGCCAGGCTGCACTCCCTTACGCCCTGGTCACTCCCGGCTTCCCGGCCA  
 CTTCTGGCCACCGCAGGCCCTCGCCATGGCCGCTGGCCTGATGCACTTCCCCAACGTCCTTCGAC  
 AGTGCCCTCCGCCACAGACTTTGCCCGGCTCATCTGCCTGGCAGCACCACCAGTCAACCTATGCAG  
 CGCCCCACTTCTCCACCTCAACACCAAGCTG

**ACGCGT**ACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG216294 representing NM\_212481  
 Red=Cloning site Green=Tags(s)

MAAPVKGNRKQSTEGDALDPPASPKPAGKQNGIQNPISLEDSPEAGGEREEEQEREEEQAFVLVSLYKFMK  
 ERHTPIERVPHLGFKQINLWKIYKAVEKLGAYELVTGRRLWKNVYDELGGSPGSTSAATCTRRHYERLVL  
 PYYRHLKGEDDKPLPTSKPRKQYKMAKENRGDDGATERPKKAKEERRMDQMMPGKTKADAADPAPLPSQE  
 PPRNSTEQQLASGSSVSFVGASGCEAYKRLSSFYCKGTHGIMSPLAKKKLLAQVSKVEALQCQEEGC  
 RHGAEPQASPAVHLPESPQSPKGLTENSRLTPQEGLQAPGGSRLREEAQAGPCPAAPIFKGCFYTHPTE  
 VLKPVSQHPRDFFSRLKDGVLGPPGKEGLSVKEPQLVWGGDANRPSAFHKGGSRKILYKPKACWVSP  
 MAKVPAESPTLPPTFPSSPGLGSKRSLLEEGAHSGKRLRAVSPFLKEADAKKCGAKPAGSGLVSCLLGP  
 ALGPVPEAYRGTMLHCLNFTGTPGLKGQAALPFSPLVIPAFPAHFLATAGSPMAAGLMHFPPTSF  
 SALRHRLCPASSAWHAPPVTTYAAPHFHNLTKL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-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.

**RefSeq:** [NM\\_212481.3](#)

**RefSeq Size:** 2223 bp

**RefSeq ORF:** 1785 bp

**Locus ID:** 10865

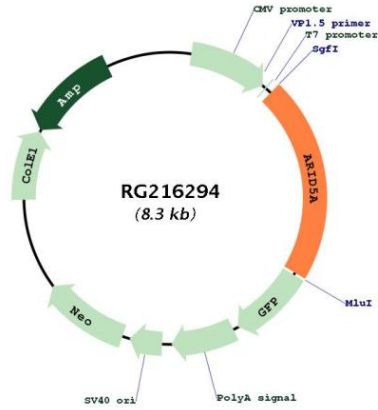
**UniProt ID:** [Q03989](#)

**Cytogenetics:** 2q11.2

**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 RG216294