

## Product datasheet for RC222099

### ARID1A (NM\_139135) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ARID1A (NM_139135) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARID1A
Synonyms:	B120; BAF250; BAF250a; BM029; C1orf4; CSS2; ELD; hELD; hOSA1; MRD14; OSA1; P270; SMARCF1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC222099 representing NM_139135 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
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ATGGCCGCGCAGGTGCCCCCGCCGCCAGCAGCCTGGGCAACCCGCCCGCCGCCCTCGGAGC  
TGAAGAAAGCCGAGCAGCAGCAGCGGGAGGAGCGGGGGCGAGGCGCGCGCGCAGCGCCGAGCG  
CGGGAAATGAAGGCAGCCCGCCGGCAGAAAGCAGGGCCCCCGCTGGGGCCCGCAGCCGCTGGGA  
AAGGAGCTGCAGGACGGGGCCGAGAGCAATGGGGTGGCGCGCGGCGGAGCCGGCAGCGCGCGGGC  
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TCCCAGACCCCTCATGCCAACCTTCGTATCAGCAGCAGCCACAGTCTCAACCACCACAGCTCCAGTCTCTCAGCCTCCATACTCCCAGCAGCCATCCCAGCCTCCACATCAGCAGTCCCCGGCTCCATACCCCTCCCA GCAGTCGACGACACAGCAGCACCAGAGCCAGCCCCCTACTCACAGCCACAGGCTCAGTCTCCTTAC CAGCAGCAGCAACCTCAGCAGCCAGCACCCTCGACGCTCTCCCAGCAGGCTGCGTATCCTCAGCCCCAGT CTCAGCAGTCCCAGCAAAGTGCCTATCCCAGCAGCGCTCCCTCCACCCGAGGAGCTATCTCAAGATTC ATTTGGGTCTCAGGCATCCTCAGCCCCCTCAATGACCTCCAGTAAGGGAGGGCAAGAAGATGAACCTG AGCCTTCAGTCAAGACCCTCCAGTTCCTGATCTATCTGGTTCATAGATGACCTCCCCATGGGACAG AAGGAGCTCTGAGTCTGGAGTGAGCACATCAGGGATTTCCAGCAGCCAAGGAGAGCAGAGTAATCCAGC TCAGTCTCCTTTCTCCTCATACCTCCCCCTCACCTGCCTGGCATCCGAGGCCCTCCCCGTCCCCTGTT GGCTCTCCCGCCAGTGTGCTCAGTCTCGCTCAGGACCACTCTCGCTGCTGAGTCCAGGCAACCAGA TGCCACCTCGGCCACCCAGTGGCCAGTCGGACAGCATCATGCATCCTTCCATGAACCAATCAAGCATTGC CCAAGATCGAGGTTATATGCAGAGGAACCCCAAGATGCCCAAGTACAGTCCCCCAGCCCGGCTCAGCC TTATCTCCGCTCAGCCTTCCGGAGGACAGATACACACAGGCATGGGCTCCTACCAGCAGAACTCCATGG GGAGCTATGGTCCCAGGGGGTTCAGTATGGCCACAAGGTGGTACCCAGGCAGCCAACTATAATGC CTTGCCAATGCCAACTACCCAGTGCAGGCATGGCTGGAGGCATAAACCCTGGGTGCCGGAGGTCAA ATGCATGGACAGCTGGCATCCCACCTTATGGCACACTCCCTCCAGGGAGGATGAGTACGCCTCCATGG GCAACCGGCTTATGGCCCTAACATGGCCAATATGCCACCTCAGGTTGGGTTCAGGATGTGTCCCCACC AGGGGGCATGAACCGGAAAACCAAGAACTGCTGTGCCATGCATGTTGCTGCCAACTCTATCCAAAAC AGGCCGCCAGGCTACCCCAATATGAATCAAGGGGGCATGATGGAACTGGACCTCCTTATGGACAAGGGA TTAATAGTATGGTGGCATGATCAACCTCAGGGACCCCATATTCATGGGTGGAACCATGGCCAAACA TTCTGCAGGATGGCAGCCAGCCAGAGATGATGGGCTTGGGGTGTAAAGTAACTCCAGCCACCAAA ATGAACAACAAGGCAGATGGGACACCAAGACAGAATCCAAATCCAAGAAATCCAGTCTTCTACTACAA CCAATGAGAAGATCACCAAGTTGTATGAGCTGGGTGGTGGCCTGAGAGGAAGATGGGTGGAGGTTA TCTGGCCTTCACTGAGGAGAAGGCCATGGGCATGACAAATCTGCCTGCTGTGGGTAGGAAACCTCTGGAC CTCTATCGCCTCTATGTGTCTGTGAAGGAGATTGGTGGATTGACTCAGGTCAACAAGAACAATAATGGC GGGAACTTGAACCAACCTCAATGTGGGCATCAAGCAGTGTGCCAGCTCCTTGA AAAAGCAGTATAT CCAGTGTCTCTATGCCTTGAATGCAAGATTGAACGGGGAGAAGACCCTCCCCAGACATCTTTGCAGCT GCTGATTC AAGAAGTCCCAGCC AAGATCCAGCCTCCCTCTCCTGCGGGATCAGGATCTATGCAGGGGC CCCAGACTCCCCAGTCAACCAGCAGTTCATGGCAGAAGGAGGAGACTTAAAGCCACCAACTCCAGCATC CACACCACACAGTCAGATCCCCCATTGCCAGGCATGAGCAGGAGCAATTCAGTTGGGATCCAGGATGCC TTTAATGATGGAAGTACTCCACATTCCAGAAGCGGAATTCATGACTCCAAACCCTGGGTATCAGCCCA GTATGAATACCTCTGACATGATGGGGCGCATGTCTATGAGCCAAATAAGGATCCTTATGGCAGCATGAG GAAAGCTCCAGGGAGTGATCCCTTCATGTCCTCAGGGCAGGGCCCCAACGGCGGGATGGGTGACCCCTAC AGTCGTGCTGCCGGCCCTGGGCTAGGAAATGTGGCGATGGGACCACGACAGCACTATCCCTATGGAGGTC CTTATGACAGAGTGAGGACGGAGCCTGGAATAGGGCCTGAGGGAAACATGAGCACTGGGGCCCCACAGCC GAATCTCATGCCTTCAACCCAGACTCGGGGATGATTCTCCTAGCCGCTACCCCGCAGCAGCAGCAG CAGCAGCAGCAACGACATGATTCCTATGGCAATCAGTTCTCCACCAAGGCACCCCTTCTGGCAGCCCT TCCCCAGCCAGCAGACTACAATGTATCAACAGCAACAGCAGGTATCCAGCCCTGCTCCCCGCCCGGCC AATGGAGAACCGCACCTCTCCTAGCAAGTCTCCATTCTGCACTCTGGGATGAAAATGCAGAAGGAGGCT CCCCAGTACCTGCCTCGCACATAGCACCTGCCCTGTGACAGCCCCCATGATTGGCGGGATATACCTT CCCACCTGGCTCTGTTGAAGCCACACAGCCTGTGTTGAAGCAGAGGAGGCGGCTCACAATGAAAGACAT TGGAACCCCGGAGGCATGGCGGTAATGATGTCCTCAAGTCTGGTCTCCTGGCAGAGACATGGGCA TTAGATACCATCAACATCCTGCTGTATGATGACAACAGCATCATGACCTTCAACCTCAGTCAGCTCCAG GGTGCTAGAGCTCCTTGTAGAATATTTCCGACGATGCCTGATTGAGATCTTTGGCATTAAAGGAGTA TGAGGTGGGTGACCCAGGACAGAGAACGCTACTGGATCCTGGGAGGTTGAGCAAGGTGTCTAGTCCAGCT CCCATGGAGGGTGGGGAAGAAGAAGAAGAACTTCTAGGTCCTAACTAGAAGAGGAAGAAGAAGAGGAAG TAGTTGAAAATGATGAGGAGATAGCCTTTTCAGGCAAGGACAAGCCAGCTTCAGAGAATAGTGAGGAGAA GCTGATCAGTAAGTTTGACAAGCTTCCAGTAAAGATCGTACAGAAGAATGATCCATTTGGTGGACTGC TCAGATAAGCTTGGGCGTGTGCAGGAGTTTGACAGTGGCCTGCTGCACTGGCGGATTGGTGGGGGGACA CCACTGAGCATATCCAGACCCACTTCGAGAGCAAGACAGAGCTGCTGCCTTCCGGCCCTCACGCACCCTG CCCACCAGCCCTCGGAAGCATGTGACAACAGCAGAGGGTACACCAGGGACAACAGACCAGGAGGGGCC CCACCTGATGGACCTCCAGAAAACGGATCACAGCCACTATGGATGACATGTTGTCTACTCGGTCTAGCA

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**Protein Sequence:** >RC222099 representing NM\_139135  
 Red=Cloning site Green=Tags(s)

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MAAQVAPAAASSLGNPPPPSELKKAEEQQQREEAGGEEAAAAAERGEMKAAAGQESEGPVAVGPPQPLG
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HSEFTLYESRLLDISVSPLMNSLVSQVICDVLFLIGQS
  
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-Mlul



**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\\_139135.4](#)

**RefSeq Size:** 7934 bp

**RefSeq ORF:** 6207 bp

**Locus ID:** 8289

**UniProt ID:** [O14497](#)

**Cytogenetics:** 1p36.11

**Protein Families:** Druggable Genome

**MW:** 218.3 kDa

**Gene Summary:** This gene encodes a member of the SWI/SNF family, whose members have helicase and ATPase activities and are thought to regulate transcription of certain genes by altering the chromatin structure around those genes. The encoded protein is part of the large ATP-dependent chromatin remodeling complex SNF/SWI, which is required for transcriptional activation of genes normally repressed by chromatin. It possesses at least two conserved domains that could be important for its function. First, it has a DNA-binding domain that can specifically bind an AT-rich DNA sequence known to be recognized by a SNF/SWI complex at the beta-globin locus. Second, the C-terminus of the protein can stimulate glucocorticoid receptor-dependent transcriptional activation. It is thought that the protein encoded by this gene confers specificity to the SNF/SWI complex and may recruit the complex to its targets through either protein-DNA or protein-protein interactions. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]