

Product datasheet for **MG206872**

Arid5a (BC027152) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arid5a (BC027152) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Arid5a
Synonyms:	MGC36895, Mrf1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206872 representing BC027152 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAAGGAGCTGAGGGGAGACGATGGGACCACTGAGAAGCTGAAGAAGGCCAAGGACTCAGAGGAGA
GGCGGGTGGAGCAGACCACGCCAGGAAAGACCAATCAGATGCCACTGGCCAGACACAGCTTCCCTGCCA
GGGATCCTCGAGGGACAGCACAGAACAGCTGGGCCAGTATCTGGACCCTCTCCACCCTCACGGGTGCT
AGTAGCTGCCCTGAGGCCTACAAGCGGCTCTTGCAAGCTTTACTGCAAAGGGGCGCATGGCATCATGT
CACCCTGGCCAAAAGAACTCCTGGCCAGGTCAGCAAGGCAGAGGCCTTGCAGTGCCAAGAAGAGGG
CTGTGCCTATGGAGCAAGGAGCCCAACAAGGACATTCAAGACAGTCCCCAGAACCTAAGAGGGCCGGCT
GAGAACTCTGAACACCAGCTAACCCCCGGGAAGGATTGCAGGCCCTGGTGGGAGCACCAGGATGGAGG
CCCAAGTGGGCCCTGCCTACAGCCCCATGTTCTCAGGCTGTTTTATGCGTACCCACCCGAGGTGCT
GAAACCTGTCAGCCAGCACCCTAGGGACTTCTTCTCCGGCCTAAAGACAGGGTGTCTGGGACCACCT
GGTAAAGAAGAAGGTCGACAACCAAGAGTCCCATCTGGTGTGGGTGGGGATGCCAACCCCTCTG
CATTCCATAAAGGCAGCACAAGAAAAGAAGTTTCTACCCCAACCCAAAGCCTGCTGGGTGTCTCCAT
GGCCAAGTCCCTACTGAGAGGCCTGGAGCCCCATCCCCTATCCAGTAGCCAGGTCTTGGCAGTAAG
CGCGGCTTGAAGAAGAGGGATTGCTCATGGTGGCAAGAACTGAGGGCAGTGTCTCCCTTCTGAAGG
AGGTGGATTCCAAGGAGACTGGGGCAAGCCTGCAGCCCCTGGCTTGGCTGTATCCTGTCTACTGGGCC
AACCCCGGGGCCACTCCTCCAGAGGCCTACAGGGGCACCATGCTGCGGTGTCCTCTAAACTTACCCGT
AGCGCAGACCCTCTGAAGGGCCAGGCCTACTCCCTTACAGCCCCTGGTTCATCCCTGCTTCCAGCCC
ACCTTCTGGCTACAACAGGCCCTCACCTATGGCTGCCAGCCTGATGCATTTCCCTCCACGCCCTATGA
CGCTGTCTACGCAACAGACTGGGTCCAGCTTCGCTGCTGGCACATGCCACCCGTCAACCTATGCG
GCACCTCACTTCTCCACCTCAACACCAAATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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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: [BC027152](#), [AAH27152](#)

RefSeq Size: 2055 bp

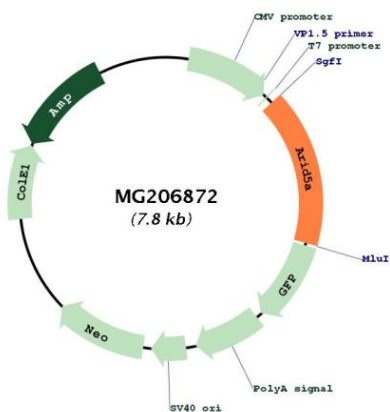
RefSeq ORF: 1295 bp

Locus ID: 214855

Cytogenetics: 1 B

Gene Summary: DNA-binding protein that may regulate transcription and act as a repressor by binding to AT-rich stretches in the promoter region of target genes (By similarity). May positively regulate chondrocyte-specific transcription such as of COL2A1 in collaboration with SOX9 and positively regulate histone H3 acetylation at chondrocyte-specific genes. May stimulate early-stage chondrocyte differentiation and inhibit later stage differentiation (PubMed:21346191). Can repress ESR1-mediated transcriptional activation; proposed to act as corepressor for selective nuclear hormone receptors (By similarity). As RNA-binding protein involved in the regulation of inflammatory response by stabilizing selective inflammation-related mRNAs, such as IL6, STAT3 and TBX21. Binds to stem loop structures located in the 3' UTRs of IL6, STAT3 and TBX21 mRNAs; at least for STAT3 prevents binding of ZC3H12A to the mRNA stem loop structure thus inhibiting its degradation activity. Contributes to elevated IL6 levels possibly implicated in autoimmunity processes. IL6-dependent stabilization of STAT3 mRNA may promote differentiation of naive CD4+ T-cells into T-helper Th17 cells (PubMed:23676272, PubMed:27022145). In CD4+ T-cells may also inhibit RORC-induced Th17 cell differentiation independently of IL6 signaling (PubMed:24782182). Stabilization of TBX21 mRNA contributes to elevated interferon-gamma secretion in Th1 cells possibly implicated in the establishment of septic shock (PubMed:27671645).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG206872