

Product datasheet for **MC219457**

Arid5a (NM_001172206) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arid5a (NM_001172206) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Arid5a
Synonyms:	D430024K22Rik; Mrf1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219457 representing NM_001172206
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCACCTCCGGCCAAAGGGAACACAGAGCAGTCAAGAAGGTGACCTCCCGCAGCTTCTGTATCCC
 CCAAGCCAGATGATGAGCAGAGCAGGAGCCAGAGCCCCACCCAGCTCCAGGACTCCCCTGAGGCAGGTGG
 GGAGCAGGAGGAGGAACAGGCCCTTCTGGTCAGCCTCTACAAGTTCATGAAGGAGCGACACAGCCCATC
 GAGAGGGTGCCCATCTTGGCTTCAAGCAGATTAACCTGTGGAAGATCTACAAGGCAGTGGAGAAGCTGG
 GGGCTATGAGCTGGTGACAGGCCGCCCTCTGGAAGAAGCTGTATGATGAACTGGCGGTAGCCAGG
 CAGCACCACTGCGGCCACATGCACAGCCGCCACTATGAGAGGCTGGTCTCCCATATGTGCGGCATCTG
 AAGGGGGAGGACACAAGCCACTGCCTCTACCAAGCCAGGAAGCAATAACAAGTGGCCAAAGGAGCTGA
 GGGGAGACGATGGGACCACTGAGAAGCTGAAGAAGGCCAAGGACTCAGAGGAGAGGCGGGTGGAGCAGAC
 CACGCCAGGAAAGACAAATCAGATGCCACTGGCCAGACACAGCTTCCCTGCCAGGGATCCTCGAGGGAC
 AGCACAGAACAGCTGGGCCAGTATCTGGACCCTCCACCCTCACGGGTGCTAGTAGCTGCCCTGAGG
 CCTACAAGCGGCTTGTCAAGCTTTACTGCAAAGGGGCGCATGGCATCATGTCAACCACTGGCCAAAAA
 GAAACTCTGGCCAGGTGAGCAAGGCAGAGGCCCTTGCAGTGCCAAGAAGAGGGCTGTGCCATGGAGCA
 AGGAGCCCAACAAGGACATTCAAGACAGTCCCCAGAACCTAAGAGGGCCGGCTGAGAAGCTGAAACACC
 AGCTAACCCCGGGAAGGATTGACAGGCCCTGGTGGGAGCACCAGGATGGAGGCCAAGTGGGCCCTG
 CCCTACAGCCCCATGTTCTCAGGCTGTTTTCATGCGTACCCACCGAGGTGCTGAAACCTGTGAGCCAG
 CACCCTAGGACTTCTTCCGGCCTTAAAGACAGGGTGTGTTGGGACCACTGGTAAAGAAGAAGGTC
 CGACAACCAAAGAGTCCCATCTGGTGTGGGGTGGGGATGCCAACCCCTCTGCATTCCATAAAGGCAG
 CACAAGAAAAAGAAGTTTCTACCCCAAACCCAAAGCCTGCTGGGTGCTCCCATGGCCAAGTCCCTACT
 GAGAGGCTGGAGCCCCATCCCCTCATCCAGTAGCCAGGTCTTGGCAGTAAGCGCGGCTTGAAGAAG
 AGGGATTGCTCATGGTGGCAAGAACTGAGGGCAGTGTCTCCCTTTCTGAAGGAGGTGGATTCCAAGGA
 GACTGGGGGAAGCCTGCAGCCCTGGCTTGGCTGTATCCTGTCTACTGGGCCCAACCCCGGGGCCACT
 CCTCCAGAGGCCACAGGGGCACCATGCTGCGGTGCTCTAACTTACCAGGTAGCGCAGACCCCTGTA
 AGGGCCAGGCCTACTCCCCTTACAGCCCTGGTATCCCTGCTTCCAGCCACCTTCTGGCTACAAC
 AGGCTCCTCACCTATGGCTGCCAGCCTGATGCATTTCCCTCCACGCCCTATGACGCTGCTCTACGCAAC
 AGACTGGGTCCAGCTTCTGCTGCTGGCAGTGCACCCGTCACAACCTATGCGGCACCTCACTTCTTCC
 ACCTCAACACCAAAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001172206
- Insert Size:** 1770 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_001172206.1](#), [NP_001165677.1](#)

RefSeq Size: 5696 bp

RefSeq ORF: 1770 bp

Locus ID: 214855

UniProt ID: [Q3U108](#)

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]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.