

Product datasheet for MC223999

Arid4b (NM_198122) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Arid4b (NM_198122) Mouse Untagged Clone
Tag: Tag Free
Symbol: Arid4b
Synonyms: BCAA; BRCAA1; RBBP1L1; Rbp1l1; SAP180
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223999 representing NM_198122
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAAGGCCCTTGATGAACCTCCTTATTTGACAGTGGGCACTGATGTGAGTGCCAAATACAGAGGAGCCT
 TCTGTGAAGCCAAGATCAAGACTGCAAAAAGACTTGTCAAAGTCAAGGTGACTTTTAGACACGATTCTTC
 AACAGTGAAGTTCAGGATGACCACATAAAGGGCCCACTGAAGGTAGGAGCTATTGTGGAAGTGAAGAAT
 CTTGATGGTGCCTATCAGGAAGCGGTTATCAATAAACTGACAGATGCAAGTTGGTATACTGTGGTTTTTG
 ATGATGGAGATGAGAAGACACTGAGAAGATCTTCATTATGTCTGAAAGGAGAGACATTTTGTGAAAG
 TGAACACTAGACCAGCTCCCACTACCAATCCTGAGCATTGGCACTCCAGTCATAGGAAAGAAAACA
 AATAGAGGAAGAAGATCTAACCATATACCAGAGGAGGAGTCTTCTCCTCATCCAGTGATGACGATGAGG
 AGGAGAGGAAACAGACTGATGAGCTACTAGGCAAAGTTGTTTGTGTAGATTATGTTAGCTTGAGAAAAA
 GAAAGCGATGTGGTTTCTGCACTGGTGGTTTGTCTGACTGTAGTGATGAGATTGCTGTGAAAAAAGAC
 AATATCTTGTTCGGTCTTTCAAAGATGGCAAATTTACTTCAGTTCCAAGAAAAGATGCCATGAAATTA
 CTAGTGACACTGTACCGAAGCCTGATGCTGATTTAAAACAAGCCTTTGATCAGGCATTTGAGTTTCACAA
 AAGTAGAGCTATTCCTGCTAATTGGAAGACTGAATTGAAAGAAGACAGCTCCAGTAGTGAAGCTGAGGAG
 GAGGAGGAGGAGGAAGATGATGAAAAAGAGAAAGAAGATAACAGCAGCGAAGAAGAGGAAGAAATAGAAC
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 GGAGGTTTATAATATTGAAAGTGGAGCTGTTTGAAGCAAGTCTATCAAGACCTGGGATCCCTGTCT
 TAAATTCAGTGCAGGATACAATGTTAAATGTGCTTATAAAAAGTACTTATATGGCTTTGAGGAGTACTG
 CAGGTCGGCTAATATTGACTTTTCAGATGGCATTGCCAGAGAAAGTTCTTAAACAAGCCATGTAAGATTGT
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 TCTGGGAAGTAAAAAAGCTTATTAGAATGTATACCTGCACAATCTGATGAAGAAAAGAAAGCTCACATT
 ACAAAAAGTGAAGAAAATGAAAAGTGAAGATAAAGACGGTGGCAGAGCTAGGACCGAGGAGGCCTTCA



GCACAGAGGTAGATGGTGAAGAAGCAAGCACGATCTGGATATGATGAATGGATTAAAGCAGATAAAAT
 AGTAAGACCTGCTGATAAAAATGTACCAAAGATCAAACATCGGAAGAAAAATAAGAATAAACTAGACAAA
 GAAAAAGACAGAGATGAAAAATACTCTCCTAAGAACTGTAACTTCGACGCTTGTCAAAATCACCGTTTC
 AGTCAAATCCATCTCCTGAGATGGTTTCCAAACTAGATCTTGCTGATGCCAAAACTCTGATACAGCTCA
 TATTAATCTATAGAAATTACTTCCATTCTTAATGGACTACAAGCTTCTGAAAGTTCGGCTGAAGACAGT
 GAGCAGGAAGATGAGAGATGACTCAGGACGTAGATAACATTGGCAAAGACGAATCAAAGGTGGAACATT
 CAACCCACAGCAGAAAATGAACTGATTTCAAAGAGGAACAGAGTAGTCCATCTTTGCTAGAAGAAAAACA
 AGTCCATACAGATTTGGTAATAGCCAAAACAGTGTCAAAATCTCCAGAAAGATTAAGAAAAAGATATGGAA
 GCAATATCGGAAGATACTGATTTTGAAGAGGAAGATGAAATCACAAAGAAGAGAAAGGATGTTAAAAAGG
 ACACAACAGACAAGGCTTTAAAGCCACAAAACAAACGTGGGAAAAGACGGTATTGCACTGCAGATGAATG
 TTTGCAGACTGGATCCCCTGGCAAGAAGGAAGACAGAACCAAGAGTAAAGAGCCGCTCTGCACAGAAAAAC
 AGTAGTAACAGCTCCTCAGATGAAGATGAAGAAGAAAAGTCCAAAGCAAAGATGACACCAACCAAGAAAT
 ATATGGCTTAGAAGAAAAGAGAAAATCTCTGCGGACAACTAGTTTCTATTTCAGGATTTTCAGAAGTAGC
 AGAAAAAGGATAAAGCTTTTAAATAACTCTGATGAAAGACTTCAGAACAACAGGGCTAAAGATAGAAAA
 GATGTCTGGTCAAGTATTCAGGGACAGTGGCCTAAGAAAACGCTAAAGGAGCTTTTCTCTGACTCGGACA
 CTGAGGCTGCAGCTTCTCCACCCATCCTGCCAGATGAGGGGGCAGTAGAGGAGTCACTGCAGACTGT
 GGCAGAAGAGGAGAGTTGTTACCCATTATGGAGCTAGAAAAGCCACTACCTGCCAGTGTGACAATAAG
 CCCATTGAAGAAAAACCCCTAGAAGTATGATAGGAAAACAGAAATTTCCGAGCAGTGGCAGTAATTCAG
 TGCTCAATACCCACCTACCACACCAGAGTCGCCTTCTTCAGTCACTATAACAGAAGCTAGTCAGCAGCA
 GTCTTCTGTACAGTGTCAAGTGCCTCCAAACCAGGAAGAGGTTTCGAAGCATTAAAGAGTAAACT
 GACAGCACAATTGAGGTGGACAGTGTGTGGGGGAGCTCCAGGACCTCCAGTCCGAGGGGAATAGCTCAC
 CAGCAGGCTTTGATGCGAGCGTGAGTTCAGCAGTAGCAATCAGCCAGAACCAGATAACCCAGAAAAAGC
 CTGTACAGGTCAGAAAAGAGTGAAGATACTCAGGGAGTAGGAAGTTCATCAAAAAAGCAGAAGAGAAGC
 CATAAAGCCACCGTGGTGAACAACAAAAAGAGGGAAAAGGCACAACAGTAGTGACAGTGAAGAACTCT
 CAGCTGGTGAAGTGTGACTAAGACTCAGACAATCAAGTCAAGTCCCCACCGGAATGAAGCCACACACAG
 CAAGTCTCCAGCAAGGTTACAGTCTCCAGGAAAAGGTGGCAGGAATGGGGATAAAGACCCTGATCTCAAG
 GAGCCTAGTAACCGGCTTCCAAGGTTTACAAGTGGAGTTTTTCAGACGTCGGACCTGGAAAAATAGACAA
 GTGCTGAACGTATCTCAATCTTCAAGAAAAATGCAAGAAATCAGAAAGCATTATCTGTCTTAAAAATC
 TGAAGTAGCTTCCATTGATAGGAGGAGAAAACGTTTTAAGAAGAAAGAGAGAGAAAGTGTGCTACATCT
 TCTTCTCCTCTTCTCCCTCGTCCAGCTCCATCACAGCTGCTGTTATGTTGACACTAGCTGAACCATCAA
 TGTCAGTGCATCACAGAATGGAATGTCAAGTTCAGTTCAGTGCAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_198122

Insert Size:

3684 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_198122.2](#), [NP_937755.1](#)

RefSeq Size: 5852 bp

RefSeq ORF: 3684 bp

Locus ID: 94246

UniProt ID: [A2CG63](#)

Cytogenetics: 13 5.29 cM

Gene Summary: Acts as a transcriptional repressor. May function in the assembly and/or enzymatic activity of the Sin3A corepressor complex or in mediating interactions between the complex and other regulatory complexes (By similarity). Plays a role in the regulation of epigenetic modifications at the PWS/AS imprinting center near the SNRPN promoter, where it might function as part of a complex with RB1 and ARID4A (PubMed:17043311). Involved in spermatogenesis, together with ARID4A, where it functions as a transcriptional coactivator for AR (androgen receptor) and enhances expression of genes required for sperm maturation. Regulates expression of the tight junction protein CLDN3 in the testis, which is important for integrity of the blood-testis barrier (PubMed:23487765). Plays a role in myeloid homeostasis where it regulates the histone methylation state of bone marrow cells and expression of various genes involved in hematopoiesis. May function as a leukemia suppressor (PubMed:18728284).
[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) lacks an in-frame exon in the central coding region, compared to variant 1. The encoded isoform (2) is shorter, compared to isoform 1.