

Product datasheet for RN215517

Arid4b (NM_053421) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arid4b (NM_053421) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Arid4b
Synonyms:	Bcaa
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN215517 representing NM_053421 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGCCCTTGATGAGCCTCCTTATTTGACAGTGGGCACTGATGTGAGTGCCAAGTACAGAGGAGCCT
TTTGTGAAGCCAAGATCAAGACTGCAAAAAGACTTGTCAAAGTCAAGGTGACTTTTACAGACGATTCTTC
AACAGTGAAGTTCAGGATGACCACATAAAGGGCCCACTGAAGGTAGGAGCTATTGTGGAAGTGAAGAAT
CTTGATGGTGCCTATCAGGAAGCTGTTATCAATAAACTGACAGATGCAAGTTGGTATACTGTGGTTTTTG
ATGATGGAGATGAGAAGACTGAGAAGATCTTCATTATGTCTGAAAGGAGAGAGACATTTTCTGAAAG
TGAACACTAGACCAGCTCCCACTTACCAATCCTGAGCATTTTGGCACTCCAGTCATAGGAAAGAAAACA
AATAGAGGAAGAAGATCTAATCATATACAGAGGAGGAATCTTCTTCTCATCCAGTGATGACGATGAGG
ATGATAGGAAACAGACTGACGAAGTCTAGGCAAGTTGTTTGTGTAGATTATATTAGTTTGGATAAAAA
GAAAGCGCTGTGGTCCCTGCACTGGTGGTTTGTCTGACTGTAGTGATGAGATCGCCGTGAAAAAGAC
AATATTCTGTGCGATCTTCAAAGATGGCAAATTTACTTCAGTTCCAAGGAAAGATGTCATGAAATTA
CTAGTGACTGCACAAAGCCTGATGCCGATTAACAAGCCTTTGATCAGGCACTTGGATTTTCAAA
AAGTAGAACTATTCCTGCTAACTGGAAGACTGAACTGAAAGAAGCAGCTCCAGTAGTGAAGCCGAGGAA
GAGGAGGAGGAGGAGATGATGAAAAGAGAAAGATTAATAGCAGCGAAGAAGAGGAAAGAAATAGAAC
CATTTCCAGAGGAAAGGAGAACTTTCTCAGCAGCTGTATAAATTCATGGAGGATAGAGGTACACCTAT
TAACAAACGCGCTGTGCTTGGGTATCGAAATCTGAATCTTTTTAAGTTATTTCAGACTTGTGCACAACTT
GGAGGATTTGATAACATTGAAAGTGGAGCTGTTTGAAGCAAGTCTACCAAGACCTTGGCATCCCTGTCT
TAAATTCAGTGCAGGATATAACGTTAAATGTGCTTACAAAAGTACTTATATGGCTTTGAAGAGTACTG
CAGGTCGGCAAAATATTGATTTTCAGATGGCATTGCCAGAGAAAGTTCTTAAACAAGCCATGTAAGATTGT
GAAAATAAAGAAATAAAGTTAAAGAAGAAAGTATGATGAGATCAAAGAAGTAAATGTGGAAGACAGTA
AGAACATGATACCAAAAGAGGAGACGCCTGCTGAGGATGAGAGTGAAGAAAAGAAAATATCAAACCTC
TCTGGAAAGTAAAAAGGCTTATTAGAATGTATACCTGCACAATCTGATCAAGAAAAGAAAGCTAACATT



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ACAAAAGTAGAAGAAAAGGAAAGCTTGGAGATAAAGACGGTGCCACAGCTAGGGCCGAGGAGGCCCTCA
GCACAGAGGTAGATGCTGAAGAAGCAAGCAGATCTGGATATGATGAATGGATTAAGCAGATAAAAT
AGTAAGACCTGCTGATAAAAATGTACCAAAGATAAAACATCGGAAGAAAAAAGAAATAAACTAGACAAA
GAAAAAGACAGAGATGAAAAACTCTCCTAAGAACTGTAACCTCGACGCTTGTCAAAATCACCGTTTC
AGTCAAATCCATCTCCTGAGATGGTTTCCAAACTAGATCTTGCTGATGCCAAAAATCTGATACAGGTCA
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GAGCAGGAGGAGGAGAGGTGTGCTCAGGACCCAGAAAGCAGTAGCAAAGACGAATCAAAGTGGAACATT
CAGCCCACAGCAGAAGTGAGCTGATTTCAAAGAGGAAGTGAAGTCCATCTTTGCTAGAAGAAAAACA
AGTCCACCAGATTTGGTAATAGCCAAAACAGTGTCAAAATCTCCAGAAAGATTAAAGAAAGATGTGGAA
GCAATATCAGAAGATACTGATTTGAAGAGGAAGATGAAATCACAAAAAGAGAAAGGATGTTAAAAAGG
ACACAACAGATAAGGCTTTAAAGCCACAAACCAAAACGTGGGAAAAGACCGGTATTGTATACAGACGAA
TTGTTTGCAGAGTGGATCCCCTGGCAAGAAGGAAGACAGAACCAAGAGCAAAGAGCCACTCTGCACAGGA
AACAGTAGTAATAGCTCCTCAGATGAAGACGAAGAGGAAAAGTCCAAAGCAAAGATGACACCAACCAAGA
AATATAATGGCTTAGAAGAAAAGAGAAAATCTTTGCGGACAACTAGTTTCTATTCAGGATTTTCAGAAGT
AGCAGAAAAAGGATAAACTTTTAAATAACTCTGATGAAAGACTCCAGAACAACAGGGCTAAAGATAGA
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ACACTGAGGCTGCAGCTTCTCCACCCATGCTGCCCCAGATGAAGGGACAGTAGAGGAGTCACTGCAGAC
TGTGGCAGAAGAGGAGAGTTGCTCACCCAAATGAGAGCTAGAGAAGCCACTACCTACCAGTGTGACAGT
AAGCCAGTGGAAGAAAAGCCCCTAGAAGTGTAGTACAGAAAAACAGAATTTCCGAGCAGTGGCAGTAATT
CAGTGTCTCAATACCCACCTACCACACCGGAGTCGCCTTCTTCAGTCACTGTAACAGAACTAGTCAGCA
GCAGTCTTCTGTACGGTGTGAGTGCCTCCAAACCAGGAAGAGTCCGAAGCATCAAGAGTGAA
ACTGACAGCACAATGAGGTGGACAGTGTGTGGGGAGCTCCAGGACCTCCAGTCAGAGGGGAATAGCT
CACCAGCAGGCTTAAATGCAAGCGTGAAGTCCAGCAGTAGCAATCAGCCAGAACCAGAACCCAGAAAA
AGCCTGTACAGGTCAGAAAAGAGTGAAAGATACTCAGGGAGTAGGAAGTTCATCAAAAAAGCAGAAGAGA
AGCCATAAAGCCACTGTGGTGAACAACAAAAAGGAAAAGGCACAAACAGTGTGACAGTGAAGATC
TTTCAGCTGGTGAAGTGTGACTAAGACTCAGGCAATCAAGTCACTCCCACTGGAATGAAGACCCACAA
TAGCAAGTCTCCTGCAAGAATACAGTCTCCAGGAAAATGTGGCAAGAATGGAGATAAAGATCCTGATCTC
AAGGAGCCAGTAACCGGCTTCCAAGTTTACAAGTGGAGTTTTAGATGTGGACCTGGAAAATATGA
CAAGTGTGAACGTATCTCAATCTTCAAGAAAAATTGCAAGAAATCAGAAAACATTATCTCTCATTAA
ATCCGAAGTAGCATCCATTGATAGGAGGAGAAAACGTTTAAAGAAGAAAGAGAGAAAAGTGTCTGCTACA
TCTTCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT
CAATGTCCAGTGCATCACAGAATGGAATGTCAGTTGAGTGCAGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

ACCN:

NM_053421

Insert Size:

3687 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_053421.1](#), [NP_445873.1](#)

RefSeq Size: 4980 bp

RefSeq ORF: 3687 bp

Locus ID: 84481

UniProt ID: [Q9JKB5](#)

Cytogenetics: 17q12.1

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. 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. 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. 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.[UniProtKB/Swiss-Prot Function]