

## Product datasheet for **MR217634L4V**

### Arid4b (NM\_194262) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Arid4b (NM_194262) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Arid4b
Synonyms:	BCAA; BRCAA1; RBBP1L1; Rbp1l1; SAP180
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_194262
ORF Size:	3942 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR217634).
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_194262.2</a> , <a href="#">NP_919238.1</a>
RefSeq Size:	6113 bp
RefSeq ORF:	3945 bp
Locus ID:	94246
UniProt ID:	<a href="#">A2CG63</a>
Cytogenetics:	13 5.29 cM



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**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]