

## Product datasheet for **MR230631**

### **Arid3a (NM\_001288626) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Arid3a (NM_001288626) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arid3a
Synonyms:	Bright; Dri1; Drill1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR230631 representing NM\_001288626  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAGCTGCAGGCTGTGATGGAGACTCTCATTAGAGGCAGCAGCGTGCCCGCAGGAAGTGGAGGCTC  
 GGCAGGCTCCACCACCCACCACCTGAGCCACTGGAGTCCGGGCACGACCACCATGACAGATGAGGA  
 CAGGGAGCCTGAGAATGCCCGGATGCATAGGACTCAGATGGCCGCACTGGCTGCCATGCGAGCTGCTGCT  
 GCCGGCTTGGGACATCCGTCCTCTCCCGGGGGCTCTGAGGATGGGCTCCCATCTCTGGGGATGAAGACA  
 CAGCCCGGAAGGGACTCTGAGTTCACCTGCCCTGCATGGAAGTGTCTGGAGGGAGCAGGACACGCTGA  
 GGGAGATAGGCATTTGATGGACGTGGGCTCTGATGATGATGACACGAAGTCCAAGTGGGAAGAGCAAGAG  
 CTGGAAGAACTGGGGAGGAGGAAGAGGAGGAGGAAGAGGAAGATGACTTTGAAGAAGAGGAGGAGGAAG  
 AAGAAGGCCTGGCCCCCAGAGTCTGCCAGCCTGGGCACTGCAGGCCTGTTACCCGCAAGGCCCGCC  
 CGCCAGGCTTCCGTGGAGACGGTGGTCCAGGATGCTGAGTGGCCCTGAGCGTCTGGGACCTGGCCCA  
 GCCACCCAGTCATATGGCATCCAGATGCCACCACCGACCATGGGGACTGGACCTTTGAGGAGCAGT  
 TCAAACAGCTCTATGAACTGGATGCGGACCCCAAGAGGAAGAGTTCTGGATGACCTTTTCAGTTCAT  
 GCAGAAGCGGGCACTCCAGTGAACCGGATCCCATCATGGCGAAGCAGGTCTCGACCTGTTTCATGTTG  
 TATGTGCTGGTGACCGAGAAGGGCGGCCTGGTAGAGTTATCAACAAGAACTGTGGAGGGAGATCACCA  
 AGGGGCTCAACCTGCCTACCTCCATCACCAGTGTGCCTTCACTTTCGGACACAGTACATGAAGTATCT  
 TTACCCCTATGAGTGTGAGAGGGCAGGCCTGAGCAGCCCCAACGAGCTCCAGGCCCATAGACAGCAAT  
 CGCAGGGAGGGCAGGCGCCAGAGCTTCGGTGGCTCACTCTTTCCTACTACCCAGTGGAGCTTCCATCAC  
 TGCTGCCCTCACCAAGCTACCGGTGACTCCCCGGCCCTCGCTGCCAGCACCAATGGCAGTTCCATCAC  
 CCCAGCGCCCAAGATCAAGAAAGACTCGGCCATCCCATCACAGTCCAGGCCGCTACCTGTATCTTTG  
 GCAGGCCACCCTGTTGTGCGAGCCAGGCTGCGGCGGTGCAAGCTGCGGCAGCCCAAGCAGCCGTTGCGG  
 CCCAGGCAGCCGCTGGAGCAACTCCGGGAGAAGCTGGAATCCACAGAGCCTCCAGAAAAGAAGATGGC  
 CCTAGTGGCCGATGAGCAACAGCGACTCATGCAGCGAGCTGTGCAGCAGAGCTTCTGGCCATGACAGCC  
 CAGCTGCCATGAACATCCGCATCAACAGCCAAGCCTCTGAGAGCCGCCAGGACTCAGCCGTGAGTCTCA  
 CCAGTGCCAACGGGAGCAACAGTATTAGCATGTCCGTGGAGATGAATGGTATTGTATACACAGGTGTGT  
 GTTCGCTCAGCCACCACCTCTACAGCACCTTCCGCCCCGGCAAAGGGGGCGTCAGCAGCATCGGTACC  
 AACACCACCAGGGCAGCCGGACAGGAGCCAGTGGCAGCACTGTACAGCGCGGCCAGGTGGGGCTGCCGG  
 GGGTGTCTACACCACCATGTCTTCTACCTCAAACAACCTCTTGCCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230631 representing NM\_001288626  
 Red=Cloning site Green=Tags(s)

MKLQAVMETLIQRQQRARQELARQAPPPPPPEPTGVRARITMTDEDREPENARMHRTQMAALAAMRAAA  
 AGLGHPSSPGSEDPPIISGDEDTAREGTLSSPALHGSVLEAGHAEGRHLMVGSDDDDTKSKWEEQE  
 LEELGEEEEEEEEEDDFEEEEEEGLGPPESASLGTAGLFTRKAPPAQAFRGDGGPRLSGPERLGGP  
 AHPSHMASQMPDPHDGDTFEEQFKQLYELDADPKRKEFLDDLF SFMQKRGTPVNRIPIMAKQVLDL FML  
 YVLVTEKGGLVEVINKKLWREITKGLNLPISITSAFTLRTQYMKYLYPYECERRGLSSPNELQAAIDSN  
 RREGRRQSFGGSLFAYSPSGAHSM LPSKLPVTP LGLAASTNGSSITPAPKIKKDSAIPITVPGRLPVSL  
 AGHPVVAQAQAAVQAAAAQAAVAQAALQLREKLESTEPPEKKMALVADEQQLMQRAVQQSFLAMTA  
 QLP MNIRINSQASESRQDSAVSLTSANGSNSISMSVEMNGIVYTGVLFAQPPPTAPSAPGKGVSSIGT  
 NTTTGSRTGASGTVSGGQVGLPGVSTPTMSSTSNNSLP

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

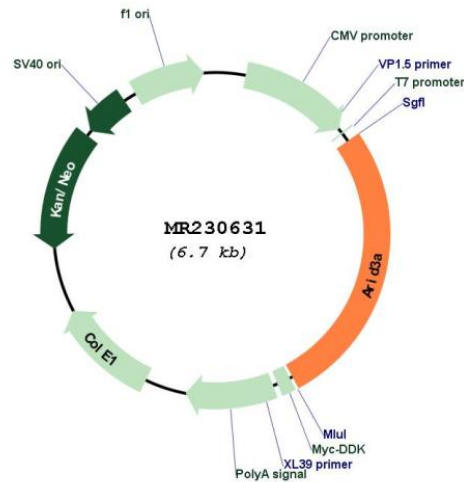
Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM\_001288626

ORF Size: 1797 bp

<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001288626.1</a> , <a href="#">NP_001275555.1</a>
<b>RefSeq Size:</b>	5355 bp
<b>RefSeq ORF:</b>	1800 bp
<b>Locus ID:</b>	13496
<b>UniProt ID:</b>	<a href="#">Q62431</a>
<b>Cytogenetics:</b>	10 C1
<b>MW:</b>	64.4 kDa
<b>Gene Summary:</b>	Transcription factor involved in B-cell differentiation. Binds a VH promoter proximal site necessary for induced mu-heavy-chain transcription. Binds the minor groove of a restricted ATC sequence that is sufficient for nuclear matrix association. This sequence motif is present in matrix-associating regions (MARS) proximal to the promoter and flanking E mu. Activates E mu-driven transcription by binding these sites. May be involved in the control of cell cycle progression by the RB1/E2F1 pathway.[UniProtKB/Swiss-Prot Function]