

## Product datasheet for **RR211079**

### **Aoc1 (NM\_022935) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Aoc1 (NM_022935) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aoc1
Synonyms:	Abp; Abp1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>RR211079 representing NM\_022935  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGAGGCTTGCACAAATGTGTCTGGCCTTCGGCTGGGCAGCTGTCATATTGGTTCTACAGACGGTAGACA  
CGGCATCTGCTGTGAGGACTCCTTATGACAAAGCGAGGGTATTTGCAGACCTGAGCCCCAGGAGATAAA  
GGCTGTTACAGCTTCTGATGAACAGGAGGAGCTGGGGCTGCAGCCGTCGAAGGAACCGACTTTGGCC  
AAAACTCTGTGTTTCTCATTGAGATGCTACTGCCAAGAAGAAGCATGTGTTGAAATTTCTGGATGAAG  
GAAGAAAAGGTCCTAACCGGAAGCTAGGGCTGTCATCTTCTCGGTGCCAGGACTACCCCAATGTCAC  
TGAGTTTGTGTGGGGCCCTGCCACGGCCCTACTATATTCGAGCACTATCCCCAGGCCAGGGCACCAT  
CTGTCTGGTCATCCAGGCCATCTCCACAGCAGAGTACGACCTCCTCTACCACAGCTGAAGAGAGCCA  
CCATGCCTCTGCACCAGTTTTTCTTGACACCACTGGCTTCTCATTCTAGGCTGTGACGACCGATGCTT  
GACTTTTACTGAGTAGCTCCACGTGGTGTGGCGTCTGGTCAGCGTAGAAGCTGGTTTATTGTGCAGCGC  
TATGTGGAAGGCTATTTCTTACCTACAGGGCTGGAGATCCTATTGGATCATGGGAGCACAGATGTCC  
AGGACTGGAGAGTGGAGCAGCTCTGGTATAACGGCAAGTTCTACAACAACCCAGAGGAAGTGGCTCGGAA  
ATACGCAGTTGGAGAAGTGGACACGGTGGTCTCGAGGACCCACTGCCCAATGGCACAGAGAAGCCCCCA  
CTCTTTTCTTCTACAAACCCCGGGGGGAATTCATACACCAGTCAATGTTGCTGGCCCCACGTTGTCC  
AGCCCAGCGGCCCGATATAAACTAGAGGGCAACACTGTGCTCTATGGAGGTTGGAGCTTCTTATCG  
GCTAAGATCCTCTTCTGGGCTGCAGATCTCAATGTGCTCTTGGAGGTGAGCGTGTGCTACGAGGTC  
AGTGTGCAGGAGGCTGTGGCACTGTATGGAGGACACACCTGCAGGCATGCAGACTAAGTACATTGATG  
TTGGCTGGGGCTGGGCAGTGTCACTCAGAGTTGGCCCTGGCATTGACTGTCCAGAGACTGCTACTTT  
CCTGGATGCCTTCCACTATTACGACAGCGATGGCCCTGTCCATTATCCACATGCTCTGTGCTCTTTGAG  
ATGCCACAGGGGTGCCCTGAGGCGCCACTTTAACTCAAATTTAAAGTGGCTTCAACTTCTATGCGG  
GTTTGAAGGGATATGTGCTGGTGTACGGACGACATCAACTGTCTATAATTATGATTACATCTGGGATTT  
CATCTTCTACTCTAACGGGGTATGGAGGCCAAGATGCACGCCACTGGCTATGTCCATGCGACCTTCTAC  
ACTCTGAGGGACTGCGCATGGCACTCGCTTACAAACCCACCTGCTGGTAACATCCACACCCACCTGG  
TGCACTACCGTGTGACATGGACGTGGCAGGCACCAAGAAGCAGCTTCCAGACACTGACGATGAAGCTGGA  
AAACCTACCAATCCCTGGAGCCCAAGTCACTCCCTGGTCCAGCCACACTCGAGCAGACCCAGTACTCC  
CAGGAGCACCAGGCTGCATTCGGCTTCGGACAGACTCTGCCAAGTACCTGCTTTAGCAGCCCCAAA  
AGAAGTGTGGGGTACAGGCGCAGTACCGCCTGCAGATCCATTCTATGGCTGAGCAGGTGCTGCCACC  
AGGTTGGCAGGAGGAGCGGGCTGTCACTTGGGCCAGGTATCCTTTGGCTGTAACAAGTATCGGGAATCT  
GAGCGCTACAGCAGCAGCCTCTACAACCAGAATGACCCCTGGGATCCCCCGTGGTCTTTGAGGATTTCC  
TTCGGAACAACGAGAACATTGAAGATGAGGATTTGGTGGCCTGGGTGACAGTGGGCTTCTGACATCCC  
TCACTCAGAAGATGTCCCAACACAGCCACACCTGGAACTCTGTGGGCTTCTGCTCCGGCCCTTCAAC  
TTCTTCCAGAGGACCCATCCCTGGCTTCTAGAGACACTGTGATAGTGTGGCCCCAGGACAAGGGCTCA  
ACCGTGTCCAGCGCTGGATCCCTGAGGACAGGCGCTGCTGGTGTCTCCTCTTTCAGCTATAATGGGAC  
CTACAAGCCTGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR211079 representing NM\_022935  
 Red=Cloning site Green=Tags(s)

MRLAQMCLAFGWAIVLVLQTVDTASAVRTPYDKARVFDLSPQEIKAVHSFLMNREELGLQPSKEPTLA  
 KNSVFLIEMLLPKKKHVLKFLDEGRKGNREARAVIFFGAQDYPNVTEFVAVGPLPRPYYIRALSPRPGHH  
 LSWSRPITSAEYDLLYHTLKRATMPLHQFFLDTTGFSFLGCDDRCLTFDVA PRGVASGQRRSWFIVQR  
 YVEGYFLHPTGLEILLDHGSTDVQDWRVEQLWYNGKFYNNPEELARKYAVGEVDTVVLEDPLPNGTEKPP  
 LFSSYKPRGEFHTPVNVAGPHVVQPSGPRYKLEGNTVL YGGWSFSYRLRSSGLQIFNVLFGGERVAYEV  
 SVQEAVALYGGHTPAGMQTKYIDVGWGLGSVTHE LAPGIDCPETATFLDAFHYYDSGDPVHYPHALCLFE  
 MPTGVPLRRHFNSNFKGGFNFYAGLKGYVLVLR TTSTVYNYDYIWDFIFYSNGVMEAKMHATGYVHATFY  
 TPEGLRHGTRLQTHLLGNIHTLVHYRVDMDVAGTKNSFQTLTMKLENLTNPWSPSHLVQPTLEQTQYS  
 QEHQAAFRTGQTLPKYLLFSSPQKNCWGHRRSYRLQIHSMAEQVLP PGWQEERAVTWARYPLAVTKYRES  
 ERYSSSLYNQNDPWPDPVVEEFLRNNENI EEDLVAVVTVGFLHIPHSEDPNTATPGNSVGFLLRPFN  
 FFPEDPSLASRDTVIVWPQDKGLNRVQRWIPEDRRCLVSPPF SYNGTYKPV

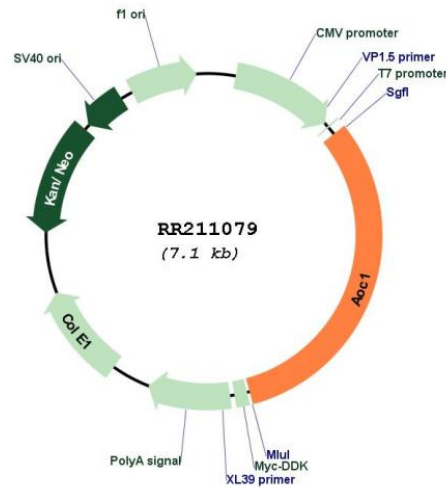
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_022935

**ORF Size:** 2253 bp

**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. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_022935.2](#), [NP\\_075224.2](#)

**RefSeq Size:** 2795 bp

**RefSeq ORF:** 2256 bp

**Locus ID:** 65029

**Cytogenetics:** 4q24  
**MW:** 85.6 kDa  
**Gene Summary:** binds amiloride and some of its derivatives; may form an epithelial-specific Na<sup>+</sup> channel [RGD, Feb 2006]