

Product datasheet for **MR222418**

Aoc1 (NM_001161621) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aoc1 (NM_001161621) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aoc1
Synonyms:	1600012D06Rik; Abp1; DAO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR222418 representing NM_001161621
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGCTGGCACAGATGAGTCTGGCCTTCGGCTGGGCAGCTGTCAATTAATTCTACAGACGGCAGACA
 CAGCATCTGCTGTGACGACTCCTCATGACAAAGCAAGGATATTTGCAGACCTGAGCCCCAGGAGATAAA
 GGCTGTGCACAGCTTCTGATGAGCAGAAAGGAGCTGGGGCTGGAGTCATCCAAGAACTGACTTTGGCC
 AAGAACTCCGTGTTTCTCATTGAGATGCTACTGCCAAAAAGAAGAATGTGCTGAAATTTTGGATGAAG
 GAAGAAAAAGTCTGTCCGGGAAGCCAGGGCCATCATCTTCTCGGTGCCAGGATCACCCCAATGTCAC
 TGAGTTTGTGTGGGGCCCTGCCACGGCCCTGCTATGTTCAAGCACTGTCCCCAGGCCAGGGCACCAT
 CTGTCTGGTTCATCAAGACCCATCTCCACAGCGGAGTATGACCTCCTCTACCACATGCTGAACAGAGCCA
 TCACGCCCTGTCACCAGTTTTTCTTGACACTACTGGCTTCTCATTCTAGGCTGCGATGACCGGTTCTT
 GACTTTTACGGATGTAGCGCCGCTGGTGTGGAGTCTGGTCAGCGTAGAAGCTGGCTTATCGTGCAGCGC
 TATGTGGAAGGCTACTTCTGCATCCCACAGGGCTGGAGATCCTTGTAGATCATAGCAGCACAGATGTCC
 AGGACTGGAGAGTGAACAGCTCTGGTATAACGGCAAGTTCTACAACAGCCCAGAGGAAGTGGCTCAGAA
 ATACGCAGTTGGAGAAGTGGAGGCAGTGGTTCTGGAGGAAGTGGTTCTCGAGGACCCACTGCCGGGTGCC
 ACAGAGCAGCCACCCTTCTCTTCTACAAGCCCCGGGGGAATCCACACGCCAGTCACTGTTGCAG
 GCCCCACGTTGTCCAGCCAGTGGCCCCAGATATAAGCTAGAGGGCAACGTTGTGCTCTACGGAGACTG
 GAGCTTCTTACCGCTAAGATCCTCTTCTGGGCTGCAGATCTTAATGTACTCTTTGGAGGTGAGCGT
 GTTGCCTATGAGGTCAGCGTGCAGGAGGCTGTGGCACTATATGGAGGACACACCTGCAGGCATGCAGA
 CTAAGTATATTGATGTTGGTTGGGGCTGGGCAGTGTCACTCACGAGCTGGCCCCGGTATTGACTGTCC
 AGAGACCCTACTTTCTGGATGCTTTCCACTATTATGACAGCGATGGCCCTGTCCTTTATCCACGCGCT
 CTGTGCCTCTTTGAGATGCCACAGGGTACCCCTTAGGCGCCACTTTGACTCAAACCTTTAAGGTGGCT
 TCAACTCTATGCGGGTTTGAAGGATATGTGCTGGTGTACGGACGACATCGACAGTCTATAATTATGA
 CTATATCTGGGATTTTCTTCTACCCTAATGGTGTGATGGAGACCAAGATGCATGCCACTGGATATGTC
 CACGCAACCTTACACCCCTGAGGGACTGCGCCATGGCACTCGCTTACAAACCCACCTGCTTGGCAACA
 TCCACACCACCTGGTGCCTACCGTGTGACCTGGACGTGGCAGGCACCAAGAAGCTTCCGGACACT
 GAAGACAAAGCTGAAAACATCACCAATCCCTGGAGCCCAAGTCACTCCCTAGTCCAGCCACACTTGAG
 CAGACCCAGTACTCCACGAGCACCAGGCTGCATTCCGCTTTGGACAGACTCTGCCAAGTACCTGCTCT
 TTAGCAGCCCCAAAAGAACCGTTGGGGCCACAGGCGGAGCTACCGCCTGCAGATCCACTCTATGGCTGA
 GCAGGTGTACCAACAGGTTGGCAGGAGGAGCGGGCTGTCACTTGGGCCAGGTATCCCTTGGCTGTGACA
 AAGTATCGGGAATCTGAACGCTACAGCAGCAGCCTCTACAACCAGAATGACCCCTGGGATCCCCCTGTGG
 TTTTTGAGGAGTTCCTTCGGAACAACGAGAACATTGAAAATGAGGATCTGGTGGCCTGGGTGACAGTAGG
 CTTCTGCACATCCCTCACTCAGAGGATGTCCCAACACAGCCACACCTGGAAATGTGTGGGCTTCTTG
 ATCCGGCCATTCAACTTCTCGAGGAGGATCCATCCCTGGCATCTAGAGACACTGTGATAGTGTGGCCCC
 AGGACAACGGTCTCAACCATGTTTCAGCGCTGGATCCCTGGAACAGGGACTGCTTGGTGTCTCCTCTTT
 TAGCTACAATGGGACCTACAAGCCTGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR222418 representing NM_001161621
 Red=Cloning site Green=Tags(s)

MRLAQMSLAFGWAAVILLQLTADTASAVTTPHDKARIFADLSPQEIKAVHSFLMSRKELGLESSKNLTLA
 KNSVFLIEMLLPKKKNVLKFLDEGRKSPVREARAIFFGAQDHPNVTEFVAVGPLPRPCYVQALSPRPGHH
 LSWSSRPITSAEYDLLYHMLNRAITPLHQFFLDTTGFSFLGCDDRFLTFDVAAPRGVESGQRRSWLIVQR
 YVEGYFLHPTGLEILVDHSSTDVQDWRVEQLWYNGKFYNSPEELAQKYAVGEVEAVVLEEVLLEDPLPGA
 TEQPLPFFSSYKPRGEFHTPVTVAGPHVQPSGPRYKLEGNVVLVYGDWSFSYRLRSSGLQIFNVLFGGER
 VAYEVSVQEAVALYGGHTPAGMQTKYIDVGWGLGSVTHELAPGIDCPETATFLDAFHYYDSGDPVLYPRA
 LCLFEMPTGVPLRRHFDNSFKGGFNFYAGLKGYVLVLRRTSTVYNYDYIWDFFIFYPNGVMETKMHTAGYV
 HATFYTPPEGLRHGTRLQTHLLGNIHTHLVHYRVDLDVAGTKNSFRTLKTKLENITNPWSPSHSLVQPTLE
 QTQYSHEHQAAFRFGQTLPKYLLFSSPQKNRWGHRRSYRLQIHSMAEQVLPPGWQEERAVTWARYPLAVT
 KYRESERYSSSLYNQNDPWPDPVVFEEFLRNNENIENEDLVAVVTVGFLHIPHSEDVPNTATPGNCVGLF
 IRPFNFEEEDPSLASRDTVIWPQDNLNHWQRWIPENRDCLVSPPFYNGTYKPV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001161621

ORF Size: 2268 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_001161621.1](#), [NP_001155093.1](#)

RefSeq Size: 2831 bp

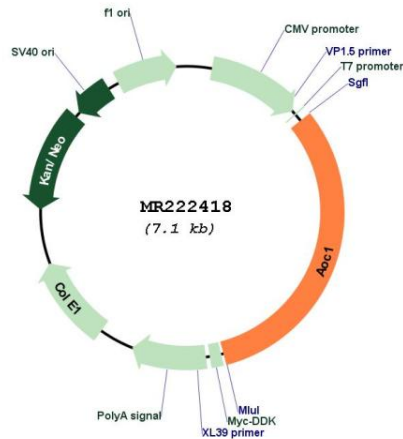
RefSeq ORF: 2271 bp

Locus ID: 76507

Cytogenetics: 6 23.78 cM

MW: 86.5 kDa

Product images:



Circular map for MR222418