

Product datasheet for **RC234863**

ABP1 (AOC1) (NM_001272072) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABP1 (AOC1) (NM_001272072) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ABP1
Synonyms:	ABP; ABP1; DAO; DAO1; KAO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234863 representing NM_001272072
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGGCCCTGGGCTGGGCCGTGGCTGCCATCCTGATGCTGCAGACGGCCATGGCGGAGCCCTCCCCGG
 GGACTCTGCCCAGGAAGGCAGGGGTGTTTTTCAGACCTAAGCAACCAAGAGCTGAAGGCAGTGCACAGCTT
 CCTCTGGTCCAAGAAGGAGCTGAGGCTGCAGCCCTCCAGTACCACCACCATGGCCAAAGAACCCTGTTT
 CTCATCGAGATGCTGCTGCCAAGAAGTACCATGTGCTGAGGTTTCTGGATAAAGGTGAAAGGCATCCTG
 TCGGGGAAGCCCGTGCCGTATCTTTGGTGACCAGGAGCATCCCAATGTCACCGAGTTTGTGTGGG
 GCCCTGCCAGGGCCCTGCTACATGCGAGCACTGTCCCCAGGCCTGGTACCAGTCTCCTGGGCATCG
 AGGCCATCTCCACAGCAGAGTATGCCCTCTACCACACCCTGCAGGAAGCCACCAAGCCCTGCATC
 AGTTCTTCTCAATACCACAGGCTTCTCATTCCAAGACTGCCATGACAGATGCCTGGCCTCACCAGATG
 GGCCCCCGGGGTGTGGCTTCTGGCCAGCGCCGAGTTGGCTTATCATACAGCGTATGTAGAAGGCTAC
 TTTCTGCACCCCACTGGGCTGGAGCTCCTCGTGGATCATGGGAGCACAGATGCTGGGCACTGGGCGGTGG
 AGCAGGTGTGGTACAACGGGAAGTTCTATGGGAGCCCAGAGGAAGTGGCTCGGAAGTATGCAGATGGAGA
 GGTGGAGCTGGTGGTCTGGAGGACCCGCTGCCTGGGGCAAGGGGCATGACAGCACAGAGGAGCCGCC
 CTCTTCTCCTCCACAAGCCCGCGGGGACTTCCCCAGCCCCATCCATGTGAGCGGCCCCCGCTTGGTCC
 AGCCCCACGGCCCTCGTTCAGGCTGGAGGGCAACGCTGTGCTCTACGGCGGCTGGAGCTTTGCCTTCCG
 GCTGCGCTCCTCCTCCGGGCTGCAGGCTCTGAAGTGCAGTTCGGCGGAGAGCGCATTGCCTATGAGGTC
 AGCGTGAAGAGGCAGTGGCGCTGTATGGAGGACACACCTGCAGGCATGCAGACCAAGTACCTCGATG
 TCGGCTGGGGCTGGGCAGCGTCACTCATGAGTTAGCCCCGGCATCGACTGCCCGAGACCCGACCTT
 CCTGGACACTTTCCACTACTATGATGCCGATGACCCGGTCCATTATCCCCGAGCCCTCTGCCTCTTTGAA
 ATGCCACAGGGGTGCCCTTCGGCGGCACTTTAATTCCAACCTTAAAGGTGGCTTCAACTTCTATGCGG
 GGCTGAAGGGCCAGGTGCTGGTGTGCGGACAACCTCAACTGTCTACAATTATGATTACATTTGGGACTT
 TATCTTACCCCAACGGGGTATGGAGGCCAAGATGCATGCCACTGGCTACGTCCACGCCACCTTCTAC
 ACCCCGAGGGGCTGCGCCACGGCACTCGCTGCACACCCACCTGATTGGCAACATACACTCACTTGG
 TGCACTACCGGTAGACCTGGATGTGGCAGGCACCAAGAAGAGCTCCAGACACTGCAGATGAAGCTAGA
 AACATCACCAACCCCTGGAGCCCAAGACACCGCGTGGTCCAGCCAACTCTGGAGCAGACGCACTCC
 TGGGAGCGCCAGGCGCCTTCCGCTTCAAAGGAAGCTGCCTAAGTACCTGCTTTTACCAGCCCCAGG
 AGAACCCCTGGGGCCACAAGCGCACGTACCGCCTGCAGATCCACTCCATGGCCGACCAGGTGCTGCCCC
 AGGCTGGCAGGAGGAGCAGGCCATCACCTGGGCAAGGACTGAGGGGGGCCAGCCAGGGCCCTGAGCCAA
 GCTGCTTCGCTGTGCCTGGCAGGTACCCCTGGCAGTGACCAAGTACCGGGAGTCGGAGCTGTGCAGCA
 GCAGCATCTACCACGAAACGACCCCTGGCACCCGCCCCGTTGGTCTTTGAGCAGTTTCTTACAACAACGA
 GAACATTGAAAATGAGGACCTGGTGGCCTGGGTGACGGTGGGCTTCTGCACATCCCCACTCAGAGGAC
 ATTCCCAACACAGCCACACCTGGAACTCCGTGGGCTTCTGCTCCGGCCATTCAACTTCTTCCAGAGG
 ACCCTCCCTGGCATCCAGAGCACTGTGATCGTGTGGCTCGGGACAACGGCCCCAACTACGTCCAGCG
 CTGGATCCCTGAGGACAGGGACTGCTCGATGCCTCCCCCTTTAGCTACAATGGGACCTATAGACCTGTG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234863 representing NM_001272072
Red=Cloning site Green=Tags(s)

MPALGWAVAAIILMLQTAMAEPSPGTLPRKAGVFSDL SNQELKAVHSFLWSKELRLQPSSTTTMAKNTVF
 LIEMLLPKKYHVLRF LDKGERHPVREARAVIFFGDQEHNVTEFAVGPLPGPCYMRALSPRPGYQSSWAS
 RPISTAEYALLYHTLQEATKPLHQFFLNTTGF SFQDCHDRCLAF TDVAPRGVASGQRRSWLIIQRYVEGY
 FLHPTGLELLVDHGSTDAGHWAVEQVWYNGKFYGSPEELARKYADGEVDVVLEDP LGGKGHDSTEEPP
 LFSSHKPRGDFPSP IHVSGPRLVQPHGPRFRLEGNVAVLYGGWSFAFRLRSSGLQVLNVHFGGERIAYEV
 SVQEAVALYGGHTPAGMQTKYLDVWGVLGSVTHE LAPGIDCPETATFLDTFHYYDADDPVHYPRALCLFE
 MPTGVPLRRHFNSNFKGGFNFYAGLKGQVLVLR TTTSTVYNYDYIWFIFYPNGVMEAKMHATGYVHATFY
 TPEGLRHGTRLHTLIGNIHTLVHYRVDL DVAGTKNSFQTLQMKLENITNPWSPRRHVQPTLEQTQYS
 WERQA AFRFRKRLPKYLLFTSPQENPWGHKRTYRLQIHSMA DQVLP GGWQEEQAITWARTEGGQPRALSQ
 AASPVPGRYPLAVTKYRESELCS SSIYHQNDPWHPPVVF EQFLHNNENIENEDLVAWVT VGLFHIPHSED
 IPNTATPGNSVGFLLRPFNFPE DPSLASRDTVI VWPDRNGPNYVQRWIPEDRDCSMPPPF SYNGTYRVP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001272072

ORF Size: 2310 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_001272072.2](#)

RefSeq Size: 2503 bp

RefSeq ORF: 2313 bp

Locus ID: 26

UniProt ID: [P19801](#)

Cytogenetics: 7q36.1

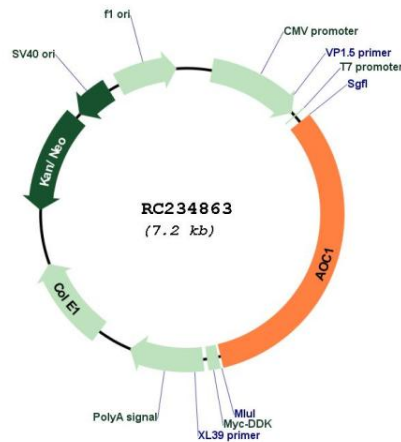
Protein Families: Secreted Protein

Protein Pathways: Arginine and proline metabolism, Histidine metabolism, Tryptophan metabolism

MW: 87.7 kDa

Gene Summary: This gene encodes a metal-binding membrane glycoprotein that oxidatively deaminates putrescine, histamine, and related compounds. The encoded protein is inhibited by amiloride, a diuretic that acts by closing epithelial sodium ion channels. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2013]

Product images:



Circular map for RC234863