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Product datasheet for RC204163

ABP1 (AOC1) (NM_001091) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABP1 (AOC1) (NM_001091) 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)

ORF Nucleotide Sequence:

>RC204163 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGGCCCTGGGCTGGGCCGTGGCTGCCATCCTGATGCTGCAGACGGCCATGGCGGAGCCCTCCCCGG
GGACTCTGCCCAGGAAGGCAGGGGTGTTTTCAGACCTAAGCAACCAAGAGCTGAAGGCAGTGCACAGCTT
CCTCTGGTCCAAGAAGGAGCTGAGGCTGCAGCCCTCCAGTACCACCACCATGGCCAAGAACACCGTGTTT
CTCATCGAGATGCTGCTGCCCAAGAAGTACCATGTGCTGAGGTTTCTGGATAAAGGTGAAAGGCATCCTG
TGCGGGAAGCCCGTGCCGTCATCTTCTTTGGTGACCAGGAGCATCCCAATGTCACCGAGTTTGCTGTGGG
GCCCCTGCCAGGGCCCTGCTACATGCGAGCACTGTCCCCCAGGCCTGGGTACCAGTCCTCCTGGGCATCG
AGGCCCATCTCCACAGCAGAGTATGCCCTCCTCTACCACACCCTGCAGGAAGCCACCAAGCCCCTGCATC
AGTTCTTCCTCAATACCACAGGCTTCTCATTCCAAGACTGCCATGACAGATGCCTGGCCTTCACCGATGT
GGCCCCCCGGGGTGTGGCTTCTGGCCAGCGCCGCAGTTGGCTTATCATACAGCGCTATGTAGAAGGCTAC
TTTCTGCACCCCACTGGGCTGGAGCTCCTCGTGGATCATGGGAGCACAGATGCTGGGCACTGGGCCGTGG
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GGTGGACGTGGTGGTCCTGGAGGACCCGCTGCCTGGGGGCAAGGGGCATGACAGCACAGAGGAGCCGCCC
CTCTTCTCCTCCCACAAGCCCCGCGGGGACTTCCCCAGCCCCATCCATGTGAGCGGCCCCCGCTTGGTCC
AGCCCCACGGCCCTCGCTTCAGGCTGGAGGGCAACGCTGTGCTCTACGGCGGCTGGAGCTTTGCCTTCCG
GCTGCGCTCCTCCTCCGGGCTGCAGGTCCTGAACGTGCACTTCGGCGGAGAGCGCATTGCCTATGAGGTC
AGCGTGCAAGAGGCAGTGGCGCTGTATGGAGGACACACACCTGCAGGCATGCAGACCAAGTACCTCGATG
TCGGCTGGGGCCTGGGCAGCGTCACTCATGAGTTAGCCCCCGGCATCGACTGCCCGGAGACCGCCACCTT
CCTGGACACTTTCCACTACTATGATGCCGATGACCCGGTCCATTATCCCCGAGCCCTCTGCCTCTTTGAA
ATGCCCACAGGGGTGCCCCTTCGGCGGCACTTTAATTCCAACTTTAAAGGTGGCTTCAACTTCTATGCAG
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TGGGAGCGCCAGGCGGCCTTCCGCTTCAAAAGGAAGCTGCCCAAGTACCTGCTCTTTACCAGCCCCCAGG
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GAGCTGTGCAGCAGCAGCATCTACCACCAGAACGACCCCTGGGACCCGCCCGTGGTCTTTGAGCAGTTTC
TTCACAACAACGAGAACATTGAAAATGAGGACCTGGTGGCCTGGGTGACGGTGGGCTTCCTGCACATCCC
CCACTCAGAGGACATTCCCAACACAGCCACACCTGGGAACTCCGTGGGCTTCCTGCTCCGGCCATTCAAC
TTCTTCCCAGAGGACCCCTCCCTGGCATCCAGAGACACTGTGATCGTGTGGCCTCGGGACAACGGCCCCA
ACTACGTCCAGCGCTGGATCCCTGAGGACAGGGACTGCTCGATGCCTCCCCCTTTTAGCTACAATGGGAC
CTATAGACCTGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204163 protein sequence
Red=Cloning site Green=Tags(s)

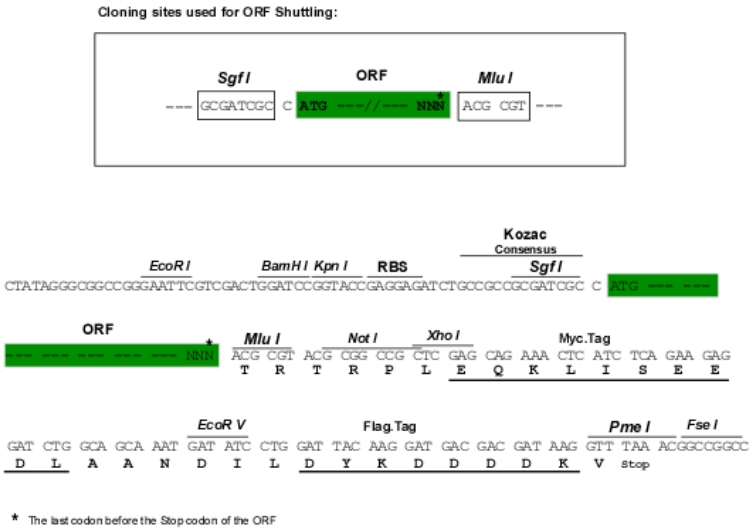
MPALGWAVAAILMLQTAMAEPSPGTLPRKAGVFSDLSNQELKAVHSFLWSKKELRLQPSSTTTMAKNTVF
LIEMLLPKKYHVLRFLDKGERHPVREARAVIFFGDQEHPNVTEFAVGPLPGPCYMRALSPRPGYQSSWAS
RPISTAEYALLYHTLQEATKPLHQFFLNTTGFSFQDCHDRCLAFTDVAPRGVASGQRRSWLIIQRYVEGY
FLHPTGLELLVDHGSTDAGHWAVEQVWYNGKFYGSPEELARKYADGEVDVVVLEDPLPGGKGHDSTEEPP
LFSSHKPRGDFPSPIHVSGPRLVQPHGPRFRLEGNAVLYGGWSFAFRLRSSSGLQVLNVHFGGERIAYEV
SVQEAVALYGGHTPAGMQTKYLDVGWGLGSVTHELAPGIDCPETATFLDTFHYYDADDPVHYPRALCLFE
MPTGVPLRRHFNSNFKGGFNFYAGLKGQVLVLRTTSTVYNYDYIWDFIFYPNGVMEAKMHATGYVHATFY
TPEGLRHGTRLHTHLIGNIHTHLVHYRVDLDVAGTKNSFQTLQMKLENITNPWSPRHRVVQPTLEQTQYS
WERQAAFRFKRKLPKYLLFTSPQENPWGHKRSYRLQIHSMADQVLPPGWQEEQAITWARYPLAVTKYRES
ELCSSSIYHQNDPWDPPVVFEQFLHNNENIENEDLVAWVTVGFLHIPHSEDIPNTATPGNSVGFLLRPFN
FFPEDPSLASRDTVIVWPRDNGPNYVQRWIPEDRDCSMPPPFSYNGTYRPV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6202_h08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001091

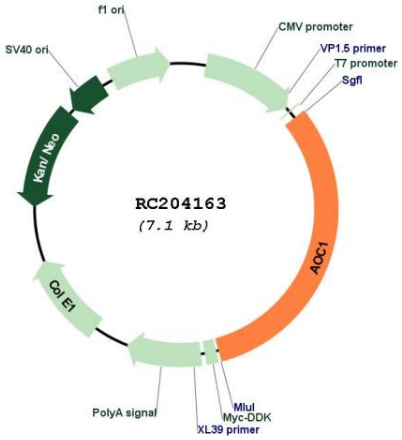
ORF Size: 2253 bp

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

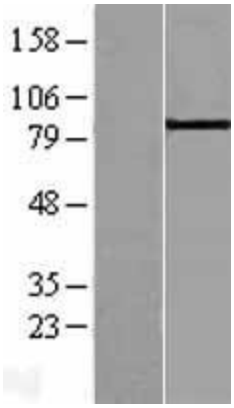
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001091.4
RefSeq Size:	2446 bp
RefSeq ORF:	2256 bp
Locus ID:	26
UniProt ID:	P19801
Cytogenetics:	7q36.1
Domains:	Cu_amine_oxid
Protein Families:	Secreted Protein
Protein Pathways:	Arginine and proline metabolism, Histidine metabolism, Tryptophan metabolism
MW:	85.3 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]

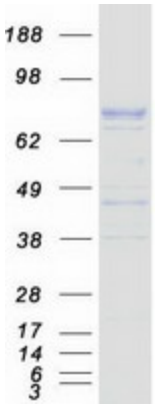
Product images:



Circular map for RC204163



Western blot validation of overexpression lysate (Cat# [LY400441]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204163 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified AOC1 protein (Cat# [TP304163]). The protein was produced from HEK293T cells transfected with AOC1 cDNA clone (Cat# RC204163) using MegaTran 2.0 (Cat# [TT210002]).