

Product datasheet for **MR209593**

Aoc3 (NM_009675) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aoc3 (NM_009675) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aoc3
Synonyms:	SSAO; VAP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209593 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACCCAGAAGACCACCCTAGTCTCCTGGCTCTGGCTGTCATCACCATCTTTGCTTTGGTTTGTGTCT
 TGCTAGCTGGCAGGAGCGGAGATGGGGTGGACTGAGCCAACCTTTCATTGCCCTCTGTTCTTCTAG
 TGTCAGCCCCGGACACACCCTAGCCAGAGCCAGCCGTTTGCAGACCTGAGCCCAGAGGAGCTGACAGCT
 GTGATGAGCTTCTGACCAAGCACCTGGGGCCAGGGCTGGTGGATGCAGCCCAGGCTCGACCCTCGGACA
 ACTGTGTCTTCTCAGTAGAGTTGCAGCTGCCTGCCAAGGCTGCAGCCCTGGCCACTTGGACAGAGGGGG
 GCCCCACCTGTGAGAGAGGCATTGGCCATCATCTTCTTTGGTGGACAACCCAAGCCCACTGAGTGAG
 CTGGTGGTGGGGCCCTGCCTACCCCTCTACATGCGGGATGTGACTGTGGAGCGCCACGGCGGCCCC
 TGCCCTATTACCGCGTCTGTGTTGGACAGAGATATCAGGATATCGAGGAGATGATCTCCACAGAGA
 GCTGCCCAAGCTTCTGGACTCTCCATCACTGTTGCTTCTACAAACACCAGGGACAGAACCTGCTAACA
 ATGACTACAGCCCCCGTGGTTTGAATCAGGGGACCGGCCACCTGGTTTGGCTTGTATTACAATCTCT
 CAGGGGCTGGGTTTTACCTCACCCATTGGCTTGGAGCTTCTGATAGATCATAAGGCCCTGGATCTCTGC
 CCTGTGGACCATCCAGAAGGATTTCTATCAAGGCCGTTACTATGAGAGTCTCACTCAGCTGGAGGACCAG
 TTTGAGGCTGGCTGGTGAATGTGGTATTGGTCCCAAACAATGGTACAGGTGGTCTGGTCTCTAAAGT
 CCTCAGTGCCACCGGGCCAGCTCCCCCTCTGCAGTCCATCCCCAGGGACCCCGTTTCACTGTCCAGGG
 GAGCCAAGTGTCTTCTTCTTGTGGCTTTTTCTTTGGCCTTGGAGCTTTCAGTGGCCAAAGGATCTTT
 GATATCCGCTTCAAGGGGAGAGGGTGGCTATGAAATCAGTGTCCAGGAGGCCATAGCCCTCTACGGTG
 GAAATCCCCAGCATCAATGTCGACCTGCTACGTGGACGGTAGCTTTGGCATTGGCAAATCTCTACCCC
 CCTGATCCGAGGGTAGACTGTCTTACCTCGCCACCTATGTGGACTGGCACTTCTTCTGGAATCTCAG
 GCCCCAAAGACTACGTGATGCAATTTGTGTGTTGAACAGAACCAGGGCCTCCCACTCCGCGCGCACC
 ACTCAGATTTCTACTCCCATTATTTGGGGTGTGTGGGGACGGTGTGTGGTGTGATCCGTGTCTAC
 CTTGCTCAATTACGACTACATATGGGACATGGTCTTCCACCCCAATGGGGCCATAGAAGTCAAATCCAC
 GCCACAGGCTATATCAGCTCAGCTTCTTCTTCCGGTGTGGTGTGAGAGTTTGGGAACCGAGTTGGGGCGC
 ACACGCTGGGCACGGTACACACCACAGCGCTCACTTCAAAGTGGATCTGGATGTGGCAGGGCTGAAGAA
 CTGGCCCTGGGCAGAGGATATGGCTTTTGTCCCCAGATTGTACCTTGGCAACCGGAGTACCAGATGCAG
 AGGCTGCAGGTGACTCGAAGCTGCTGGAGACAGAGGAGGAGGCTGCCTTCCACTGGGGGGCGCCACCC
 CAGCTACCTGTACCTGGCCAGTAACCACAGCAACAAGTGGGGTATAGCGGGGCTACCGCATCCAGAT
 ACTCAGCTTTGCTGAAAAGCCCTTGCCCAAGAAAGTCCCATAGAGAAAGCCTTCACTGGGGGAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

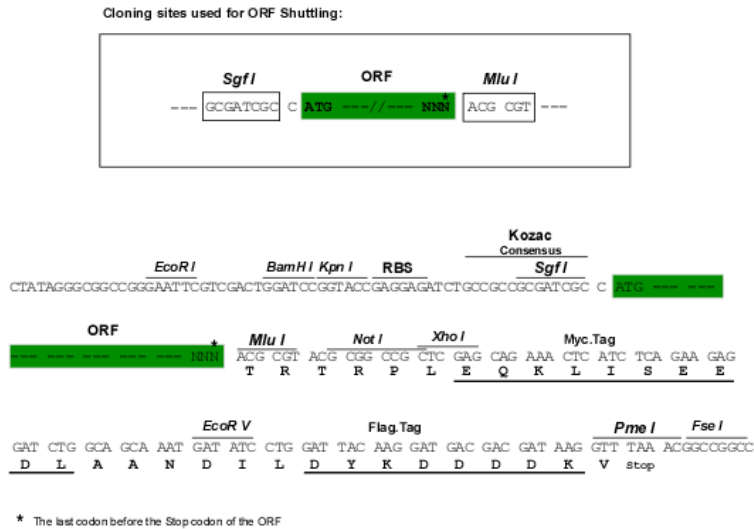
>MR209593 protein sequence
 Red=Cloning site Green=Tags(s)

MTQKTTLVLLALAVITIFALVLCVLLAGRSGDGGGLSQPLHCPVLPVQPRTHPSQSQPFADLSPEELTA
 VMSFLTKHLGPLVDAAQARPSDNCVFSVELQLPAKAAALAHLDKGGPPPVRALAIIFGGQPKPNVSE
 LVVGPLPHPSYMRDVTVERHGGPLPYRRPVLDREYQDIEEMIFHRELPAQASGLLHHCCFYKHQGNLLT
 MTTAPRGLQSGDRATWFLYYNLSGAGFYPHPIGLELLIDHKALDPALWTIQKVFYQGRYYESLTQLEDQ
 FEAGLVNVVLVPNNGTGGWSLKSVPVPPAPPLQFHPQGRFVSQGSQVSSSLWAFSFLGAFSGPRIF
 DIRFQGERVAYEISVQEAIALYGNNSPASMSTCYVDGFSFYGKYSTPLIRGVDCPYLATYVDWHFLLESQ
 APKTLRDAFCVFEQNQGLPLRRHSDFYSHYFGVYVGTVLVVRVSTLLNYDIWDMVFHPNGAIEVKFH
 ATGYISSAFFFGAGEKFGNRVGAHTLGTVHTSAHFVKVDLDVAGLKNWAWAEDMAFVPTIVPWPQPEYQMQ
 RLQVTRKLLLETEEEAFLPGGATPRYLILASNHSNKWGHRRGYRIQILSFAGKPLPQESP IEKFTWGR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009675

ORF Size: 1890 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 Size: 4396 bp

RefSeq ORF: 2298 bp

Locus ID: 11754

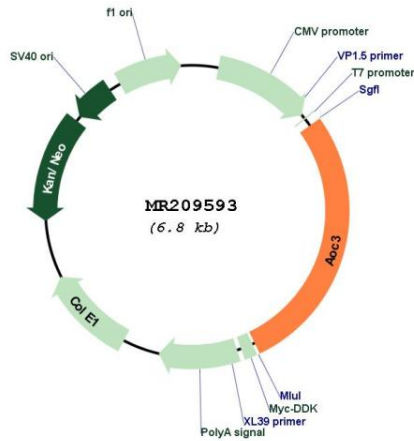
UniProt ID: [O70423](#)

Cytogenetics: 11 D

MW: 69.5 kDa

Gene Summary: Cell adhesion protein that participates in lymphocyte recirculation by mediating the binding of lymphocytes to peripheral lymph node vascular endothelial cells in an L-selectin-independent fashion. Has a monoamine oxidase activity. May play a role in adipogenesis (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209593