

Product datasheet for **MR224749**

Aoc2 (NM_178932) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aoc2 (NM_178932) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aoc2
Synonyms:	RAO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MR224749 representing NM_178932
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAATCTCAAGGTGCTGCTGCTTCTGGGGTGTCTTTCCTCACTGTCTTGTCTGGTCTATGTCC
TGCTGACCAGGCAAGGCAGTTTCAGCCAGTCTCCTCGATGCCCTTCCATACCTCCCAGAATTCATCCCTG
GACACACCCTAGCCAGAGCCAGCTGTTTGCAGACCTGACCCAGAGGAGCTGACAGCTGTGATGAGCTTC
CTGACCAAGCACCTGGGGCCGGGGCTGGTGGATGCAGCCAGGCTCGACCCTCGGACAACGTGTCTTCT
CAGTAGAGTTGCAGCTGCCTGCCAAGGCTGCAGCCCTGGCCACCTGGACAGAGGGGGCCCCACCTGT
GCGAGAGGCACTAGCCATCATCTTCTTGGTGGACAACCAAGCCCAACGTGAGTGAGCTGGTGGTGGGG
CCCCTGCCTCACCCCTCTACATGCGGGATGTGACTGTGGAGCGCCACGGCGGCCCTGCCCTATTATC
GGCGCCCATGCAGAAAAGTGTGTTTTCAGATATGGAGGCATTTGAAAGAAGTGAGCTACCAAAGGC
ACCCACCTTTCTGGCTTCTGTCTTGAACATAAATGGCTCCACCTTGGCACCTTTGCATTCTACTGCTAGT
GGTTTCCATGCAGGCGATCGAGCTACCTGGATAGCCCTTACCATAACATCTCAGGTCTTGGAGTGTCC
TTCACCCTGTGGGGCTGGAGCTACTGTTGGACCACGGGGCCCTGGACCCTGCCGACTGGGTAGTCCAACA
GGTCTTCTACCTTGGGCATTACTATGCAGACTTGGCCAGTTGGAATGGGAGTTTAAAGTTGGCCGCTA
GAAGTGATTGGGGTCCCTTACCACACAGGTTGGAGCTTCCCTTGGAGCCTAGAGTCACTCCAGACC
CTCCTCTTCCCCCTTTCAGTTCCTCACTTCAGGGTCCCCAGTAAACATACAGGGAAACTCAGTGACATC
TCCCCTTGACATTTACCTTGGTTCATGGGGTGTTCAGTGGCTTAAAGATTTTGTATTCGGTCAAG
GGTGAGCGTGTGGCTTATGAAGTCAGTGTCCAGGAGTGTCTGACAGTTTATGGTGTGATTCCCCAAAA
CAATGACGATCCGGTACTTGGACAGCAGCTATGGGCTTGGTCTCAACAGCCGAGCTTGGTTCGGGGGGT
GGATTGCCCTATCAAGCCACAATGGTGGACATCCATGTACTGGTGGGCACGGGGTCACTCCAGTGTCTT
CCAGGGGCTGTGTGTATTTGAGGAGGCCAGGGACTGCCCTTCAAGGCATCATAATGGCATCGGGG
GTCATTTCTATGGTGGTTTGGCCAGCTCAAGCCTTGTGGTCAAGTCCGGTGTATCAGTGGGCAACTATGA
TTACATCTGGGACTTTATGTACACCAACCGGGCCCTTGAAGCTCGTGTCCATGCCACGGGCTATATC
AACACAGCCTTCATGAGTGGAGGAGCTGAAAGTCTCCTCTTGGGAACCGTGTGGGAGAAAGAGTGTGG
GAGCGGTGCATACACACGCTTTCCTCACTTCAAACCTGGACCTTGTATGAGCAGGTTGAAAAACTGGGTGAT
AGCTGAAGATGCGGTCTTAAAGCCTGTAGCAGCCCTTGAACCCAGAGCTTCACTACAGCGCCACAG
CTGACCAGGCAGGTCCTGAGCAGAGAGGACCTGGCTGCATTTCCCTGGGGAGCCCTCTTCTCGATACC
TTTACCTGGCTACCAACCAGACCAATGCCTGGGGTCAACAGCGAGGGTACCGAATCCAGATCCACAGCCC
TCTTGGTGTGCATGTGCCTTGGAGAGCAGCGAGGAGAGGGCTCTCAGCTGGGGGAGGTACCAGCTTGTG
GTGACCCAGAGGAAGGAGGCAGAGCCTCACAGCAGCAGCATCTATTACCAGAACGACATGCGGAGCCAG
CTACGGTTTTTGTGACTTCATCAACAATGAAACCCTCTTAGGGGAGGATCTGGTGGCTTGGGTGACAGC
CAGTTTCTGCACATCCCCATGCTGAGGACATCCCCAACACAGTACTGTGGGAAACAGAGTGGGCTTC
TTGCTCCGACCCTACAATTTCTCAATGAAGATCCCTCTATCTTCTCCCCTGGCAGCGTACTTTGAGA
GGGACCAGGATGCCGGGCTCTGCAGCATCAACCTGTGGCCTGCACCAACAGCTGGCAGACTGTGTCCC
CAACTTACCCTCCTTTTCTATGAAGCTTA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR224749 representing NM_178932
Red=Cloning site Green=Tags(s)

MNLKVL L L L L L L L L G L S F L T V F A L V Y V L L T R Q G S F S Q S P R C P S I P P R I H P W T H P S Q S Q L F A D L T P E E L T A V M S F
 L T K H L G P G L V D A A Q A R P S D N C V F S V E L Q L P A K A A A L A H L D R G G P P P V R E A L A I I F F G G Q P K P N V S E L V V G
 P L P H P S Y M R D V T V E R H G G P L P Y Y R R P M Q K T E F V Q I W R H L K E V E L P K A P T F L A S V L N Y N G S T L A P L H S T A S
 G F H A G D R A T W I A L Y H N I S G L G V F L H P V G L E L L L D H G A L D P A D W V V Q Q V F Y L G H Y Y A D L A Q L E W E F K V G R L
 E V I R V P L P T P G G A S S L R P R V T P D P P L P L Q F S L Q G P Q Y N I Q G N S V T S P L W T F T F G H G V F S G L R I F D I R F K
 G E R V A Y E V S V Q E C L T V Y G A D S P K T M T I R Y L D S S Y G L G L N S R A L V R G V D C P Y Q A T M V D I H V L V G T G S V Q L L
 P G A V C V F E E A Q G L P L R R H H N G I G G H F Y G G L A S S S L V V R S V S S V G N Y D Y I W D F M L H P T G A L E A R V H A T G Y I
 N T A F M S G G A E S L L F G N R V G E R V L G A V H T H A F H F K L D L D V A G L K N W V I A E D A V F K P V A A P W N P E L Q L Q R P Q
 L T R Q V L S R E D L A A F P W G S P L P R Y L Y L A T N Q T N A W G H Q R G Y R I Q I H S P P G V H V P L E S S E E R A L S W G R Y Q L V
 V T Q R K E A E P H S S S I Y Y Q N D M R S P A T V F A D F I N N E T L L G E D L V A W V T A S F L H I P H A E D I P N T V T V G N R V G F
 L L R P Y N F F N E D P S I F S P G S V Y F E R D Q D A G L C S I N P V A C T Q Q L A D C V P N L P S F S Y E G L

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9013_c10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

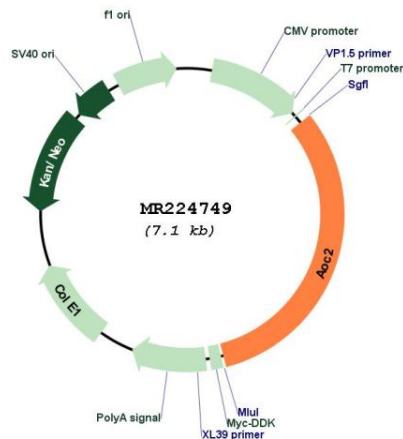
ACCN: NM_178932

ORF Size: 2271 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:	<ol style="list-style-type: none"> 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:	<u>NM_178932.1, NP_849263.1</u>
RefSeq Size:	2553 bp
RefSeq ORF:	2274 bp
Locus ID:	237940
UniProt ID:	<u>Q812C9</u>
Cytogenetics:	11 D
MW:	84 kDa
Gene Summary:	Has a monoamine oxidase activity with substrate specificity for 2-phenylethylamine and tryptamine. May play a role in adipogenesis. May be a critical modulator of signal transmission in retina (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for MR224749