

Product datasheet for **MG224749**

Aoc2 (NM_178932) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aoc2 (NM_178932) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Aoc2
Synonyms:	RAO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG224749 representing NM_178932
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAATCTCAAGGTGCTGCTGCTTCTGGGGCTGTCTTTCCTCACTGTCTTTGCTCTGGTCTATGTCC
 TGCTGACCAGGCAAGGCAGTTTCAGCCAGTCTCCTCGATGCCCTTCCATACCTCCCAGAATTCATCCCTG
 GACACACCCTAGCCAGAGCCAGCTGTTTGCAGACCTGACCCAGAGGAGCTGACAGCTGTGATGAGCTTC
 CTGACCAAGCACCTGGGGCCGGGGCTGGTGGATGCAGCCAGGCTCGACCCTCGGACAACGTGTCTTCT
 CAGTAGAGTTGCAGCTGCCTGCCAAGGCTGCAGCCCTGGCCACCTGGACAGAGGGGGCCCCACCTGT
 GCGAGAGGCACTAGCCATCATCTTCTTTGGTGGACAACCAAGCCCAACGTGAGTGAGCTGGTGGTGGGG
 CCCCTGCCTCACCCCTCATACGCGGATGTGACTGTGGAGCGCCACGGCGGCCCTGCCCTATTATC
 GCGCCCCATGCAGAAACTGAGTTTGTTCAGATATGGAGGCATTTGAAAGAAGTGAGCTACCAAAGGC
 ACCCACCTTTCTGGCTTCTGTCTTGAACATAAATGGCTCCACCTTGGCACCTTTGCATTCTACTGCTAGT
 GGTTCATGCAGGCGATCGAGCTACCTGGATAGCCCTTACCATAACATCTCAGGTCTTGAGTGTTC
 TTCACCCTGTGGGGCTGGAGCTACTGTTGGACCACGGGGCCCTGGACCCTGCCGACTGGGTAGTCCAACA
 GGTCTTCTACCTTGGGCATTACTATGCAGACTTGGCCAGTTGGAATGGGAGTTTAAAGTTGGCCGCTA
 GAAGTGATTGGGTCCCTCTACCCACACCAGGTGGAGCTTCTCCTTGAGGCCTAGAGTCACTCCAGACC
 CTCCTCTTCCCCCTTTCAGTTCCTCACTTCAGGGTCCCCAGTAAACATACAGGGAAACTCAGTGACATC
 TCCCCTCTGGACATTTACCTTTGGTTCATGGGGTGTTCAGTGGCTTAAGAATTTTGTATTCGGTCAAG
 GGTGAGCGTGTGGCTTATGAAGTCAGTGTCCAGGAGTGTCTGACAGTTTATGGTGTGATCCCCAAAA
 CAATGACGATCCGGTACTTGGACAGCAGCTATGGGCTTGGTCTCAACAGCCGAGCTTGGTTCGGGGGGT
 GGATTGCCCTATCAAGCCACAATGGTGGACATCCATGTACTGGTGGGCACGGGGTCACTCCAGCTGCTT
 CCAGGGGCTGTGTGTATTTGAGGAGGCCAGGGACTGCCCTTCAAGGCATCATAATGGCATCGGGG
 GTCATTTCTATGGTGGTTTGGCCAGCTCAAGCCTTGTGGTCAAGTTCGGTGTATCAGTGGCAACTATGA
 TTACATCTGGGACTTTATGCTACACCAACCGGGCCCTTGAAGCTCGTGTCCATGCCACGGGCTATATC
 AACACAGCCTTCATGAGTGGAGGAGCTGAAAGTCTCCTCTTTGGGAACCGTGTGGGAGAAAGAGTGTGG
 GAGCGGTGCATACACACGCTTTCCTCACTTCAAACCTGGACCTTGTATGAGCAGGTTGAAAAACTGGGTGAT
 AGCTGAAGATGCGGTCTTAAAGCCTGTAGCAGCCCCCTGGAACCCAGAGCTTCACTACAGCGCCACAG
 CTGACCAGGCAGGTCCTGAGCAGAGAGGACCTGGCTGCATTTCCCTGGGGAGCCCTCTTCTCGATACC
 TTTACCTGGCTACCAACCAGACCAATGCCTGGGGTCAACAGCGAGGGTACCGAATCCAGATCCACAGCCC
 TCCTGGTGTGCATGTGCCTCTGGAGAGCAGCGAGGAGAGGGCTCTCAGCTGGGGGAGGTACCAGCTTGTG
 GTGACCCAGAGGAAGGAGGCAGAGCCTCACAGCAGCAGCATCTATTACCAGAACGACATGCGGAGCCAG
 CTACGGTTTTTGTGCTGACTTCATCAACAATGAAACCCTCTTAGGGGAGGATCTGGTGGCTTGGGTGACAGC
 CAGTTTCTGCACATCCCCATGCTGAGGACATCCCCAACACAGTACTGTGGGAAACAGAGTGGGCTTC
 TTGCTCCGACCCTACAATTTCTCAATGAAGATCCCTCTATCTTCTCCCCTGGCAGCGTACTTTGAGA
 GGGACCAGGATGCCGGGCTCTGCAGCATCAACCCTGTGGCCTGCACCAACAGCTGGCAGACTGTGTCCC
 CAACTTACCCTCCTTTTCTATGAAGCTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG224749 representing NM_178932
Red=Cloning site Green=Tags(s)

MNLKVL L L 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 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 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

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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:

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_178932.1](#), [NP_849263.1](#)

RefSeq Size: 2553 bp

RefSeq ORF: 2274 bp

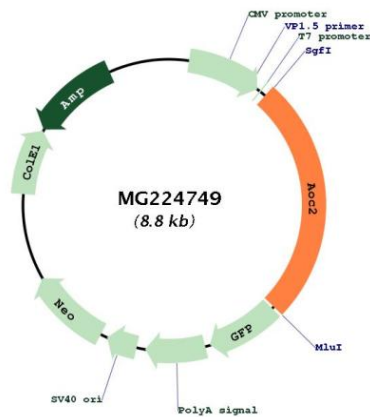
Locus ID: 237940

UniProt ID: [Q812C9](#)

Cytogenetics: 11 D

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 MG224749