

## **Product datasheet for RC228063**

# DAOA (NM 001161812) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** DAOA (NM\_001161812) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: DAOA

Synonyms: LG72; SG72

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

Cell Selection: Neomycin

ORF Nucleotide >RC228063 representing NM\_001161812
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGAGGACGGCTATTTGGAAATGGCACAGAGGCATTTACAGAGATCATTATGTCCTTGGGTCTCTTACCT
TCCTCAGCCCTATGCAGAGAGCTGGGACTTCTAACCAATGGAACATGGGAAAGGTGATGACACTTGACTC
CGGTGATGAGGTTACCTTTCACAAGACCTGGCCAACTGAGACCGGATCTCCTTACAGGCTTGAAGAAGTA
AGCAGCCATGTTGGAAAAGTCTTCATGGCAAGAAACTATGAGTTCCTTGCCTATGAGGCCTCTAAGGACC
GCAGGCAGCCTCTAGAACGAATGTGGACCTGCAACTACAACCAGCAAAAAGACCAGTCATGCAACCACAA

**GGAAATAACTTCTACCAAAGCTGAA** 

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC228063 representing NM\_001161812

Red=Cloning site Green=Tags(s)

MRTAIWKWHRGIYRDHYVLGSLTFLSPMQRAGTSNQWNMGKVMTLDSGDEVTFHKTWPTETGSPYRLEEV

SSHVGKVFMARNYEFLAYEASKDRRQPLERMWTCNYNQQKDQSCNHKEITSTKAE

**TRTRPL**EQKLISEEDLAANDILDYKDDDDK**V** 

**Restriction Sites:** Sgfl-Mlul



**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

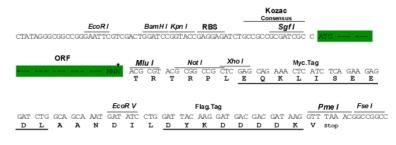
CN: techsupport@origene.cn

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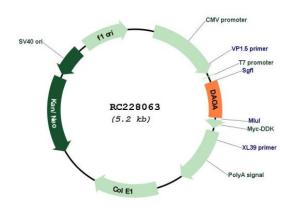
#### **Cloning Scheme:**





<sup>\*</sup> The last codon before the Stop codon of the ORF

#### Plasmid Map:



**ACCN:** NM\_001161812

ORF Size: 375 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



### DAOA (NM\_001161812) Human Tagged ORF Clone - RC228063

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:** <u>NM 001161812.1</u>, <u>NP 001155284.1</u>

 RefSeq ORF:
 378 bp

 Locus ID:
 267012

 UniProt ID:
 P59103

 Cytogenetics:
 13q34

**Protein Families:** Druggable Genome

**MW:** 14.6 kDa

**Gene Summary:** This gene encodes a protein that may function as an activator of D-amino acid oxidase, which

degrades the gliotransmitter D-serine, a potent activator of N-methyl-D-aspartate (NMDA) type glutamate receptors. Studies also suggest that one encoded isoform may play a role in mitochondrial function and dendritic arborization. Polymorphisms in this gene have been implicated in susceptibility to schizophrenia and bipolar affective disorder. Alternatively spliced transcript variants encoding different isoforms have been identified.[provided by

RefSeq, Mar 2011]