

Product datasheet for RG228063

DAOA (NM 001161812) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: DAOA (NM_001161812) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: DAOA

Synonyms: LG72; SG72

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG228063 representing NM_001161812
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGAGGACGGCTATTTGGAAATGGCACAGAGGCATTTACAGAGATCATTATGTCCTTGGGTCTCTTACCT TCCTCAGCCCTATGCAGAGAGCTGGGACTTCTAACCAATGGAACATGGGAAAGGTGATGACACTTGACTC CGGTGATGAGGTTACCTTTCACAAGACCTGGCCAACTGAGACCGGATCTCCTTACAGGCTTGAAGAAGTA AGCAGCCATGTTGGAAAAGTCTTCATGGCAAGAAACTATGAGTTCCTTGCCTATGAGGCCTCTAAGGACC GCAGGCAGCCTCTAGAACGAATGTGGACCTGCAACTACAACCAGCAAAAAGACCAGTCATGCAACCACAA

GGAAATAACTTCTACCAAAGCTGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG228063 representing NM_001161812

Red=Cloning site Green=Tags(s)

MRTAIWKWHRGIYRDHYVLGSLTFLSPMQRAGTSNQWNMGKVMTLDSGDEVTFHKTWPTETGSPYRLEEV

SSHVGKVFMARNYEFLAYEASKDRRQPLERMWTCNYNQQKDQSCNHKEITSTKAE

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



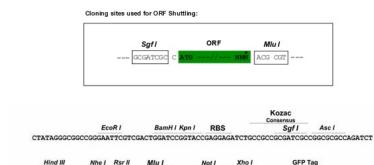
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

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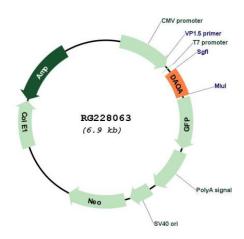
Cloning Scheme:



CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC

Pme | Fse |
--- GAA GAA AGA GTT TAA ACGGCCGGCCGCGGAGCT

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 - RG228063

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 Size:
 924 bp

 RefSeq ORF:
 378 bp

 Locus ID:
 267012

 UniProt ID:
 P59103

 Cytogenetics:
 13q34

Protein Families: Druggable Genome

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]