

Product datasheet for RC212162

DAOA (NM_172370) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Tag: Myc-DDK
Symbol: DAOA

Synonyms: LG72; SG72

Mammalian Cell Neomycin

Selection:

Vector:

pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide >RC212162 representing NM_172370

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

TCATGCAACCACAAGGAAATAACTTCTACCAAAGCTGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC212162 representing NM_172370

Red=Cloning site Green=Tags(s)

MLEKLMGADSLQLFRSRYTLGKIYFIGFQKSILLSKSENSLNSIAKETEEGRETVTRKEGWKRRHEDGYL EMAQRHLQRSLCPWVSYLPQPYAELEEVSSHVGKVFMARNYEFLAYEASKDRRQPLERMWTCNYNQQKDQ

SCNHKEITSTKAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6243 e08.zip

Restriction Sites: Sgfl-Mlul



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

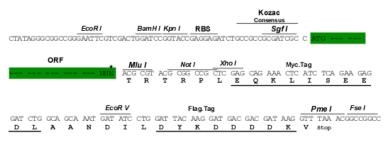
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_172370

ORF Size: 459 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: <u>NM 172370.2</u>, <u>NP 758958.2</u>

RefSeq Size: 742 bp
RefSeq ORF: 462 bp
Locus ID: 267012

DAOA (NM_172370) Human Tagged ORF Clone | RC212162

UniProt ID: P59103
Cytogenetics: 13q34

Protein Families: Druggable Genome

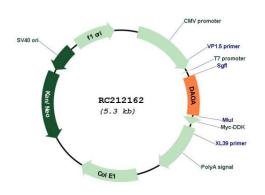
MW: 17.9 kDa

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

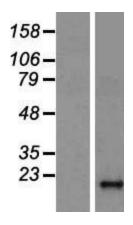
degrades the gliotransmitter D-serine, a potent activator of N-methyl-D-aspartate (NMDA) type glutamate receptors. Studies also suggest that one encoded isoform may play a role in mitochondrial function and dendritic arborization. Polymorphisms in this gene have been implicated in susceptibility to schizophrenia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

RefSeq, Mar 2011]

Product images:



Circular map for RC212162



Western blot validation of overexpression lysate (Cat# [LY406698]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212162 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).