

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 Sequence: >RC228063 representing NM_001161812
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAGGACGGCTATTTGGAAATGGCACAGAGGCATTTACAGAGATCATTATGTCCTTGGGTCTCTTACCT
TCCTCAGCCCTATGCAGAGAGCTGGGACTTCTAACCAATGGAACATGGGAAAGGTGATGACACTTGACTC
CGGTGATGAGGTTACCTTTCACAAGACCTGGCCAACTGAGACCGGATCTCCTTACAGGCTTGAAGAAGTA
AGCAGCCATGTTGAAAAGTCTTCATGGCAAGAACTATGAGTTCCTTGCCTATGAGGCCTTAAGGACC
GCAGGCAGCCTCTAGAACGAATGTGGACCTGCAACTACAACCAGCAAAAAGACCAGTCATGCAACCACAA
GAAATAACTTCTACCAAGCTGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC228063 representing NM_001161812
Red=Cloning site Green=Tags(s)

MRTAIWKWHRGIYRDHYVLGSLTFLSPMQRAGTSNQWNMGKVMTLDSGDEVTFHKTWPTETGSPYRLEEV
SSHVGKVFMARYEFLAYEASKDRRQPLERMWTCNYNQQKQKQSCNHKEITSTKAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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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:	NM_001161812.1 , NP_001155284.1
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]