

Product datasheet for **RG228716**

DAOA (NM_001161814) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DAOA (NM_001161814) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: DAOA
Synonyms: LG72; SG72
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG228716 representing NM_001161814
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGGAAAAGCTGATGGGTGCTGATTCTCTCCAGCTTTTCAGATCCAGATATACATTGGGTAAAATCT
 ACTTCATAGGTTTTCAAAGGAGCATTCTTCTGAGCAAATCTGAAAATCTCTAACTCTATTGCAAAGGA
 GACAGAAGAAGGAAGAGAGACGGTAACAAGGAAAGAAGGATGGAAGAGAAGGCATGAGGACGGCTATTTG
 GAAATGGCACAGAGGCATTTACAGAGATCATTATGTCCTTGGGTCTTTACCTTCCTCAGCCCTATGCAG
 AGCTTGAAGAAGTAAGCAGCCATGTTGGAAAAGTCTTCATGGCAAGAACTATGAGTTCCCTGCCTATGA
 GGCTCTAAGGACCGCAGGCAGCCTCTAGAACGAATGTGGACCTGCAACTACAACCAGCAAAAAGACCAG
 TCATGCAACCACAAGAAATAAATTCTACCAAAGCTGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG228716 representing NM_001161814
 Red=Cloning site Green=Tags(s)

MLEKLMGADSLQLFRSRYTLGKIYFIGFQRSILLSKSENSLNSIAKETEEGRETVTRKEGWKRRHEDGYL
 EMAQRHLQRSLCPWVSYLPQPYAELEEVS SHVGKVF MARNYEF LAYEASKDRRQPLERMWTCNYNQKQDQ
 SCNHKEITSTKAE

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

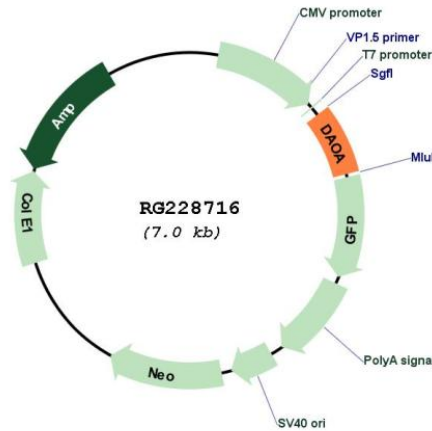


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001161814

ORF Size: 462 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:	<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:	<u>NM_001161814.1, NP_001155286.1</u>
RefSeq Size:	1009 bp
RefSeq ORF:	249 bp
Locus ID:	267012
UniProt ID:	<u>P59103</u>
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]