

Product datasheet for **MG203164**

DaoI (BC015269) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	DaoI
Synonyms:	DAO
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG203164 representing BC015269
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGCGTGGCCGTGATCGGAGCAGGAGTCATTGGGCTCTCCACAGCCCTCTGCATTATGAGCGTTACC
ACCCAACACAGCCACTGCACATGAAGATCTATGCAGATCGATTACCCCGTTACACGAGCGATGTGGC
CGCCGGCTCTGGCAGCCTTATCTCTGACCCAGCAACCCTCAGGAGCGGAGTGGAGCCAGCAAACG
TTTGATTACCTGCTGAGCTGCCTCCATTCTCCAACGCTGAAAAATGGCCTGGCCCTAATCTCAGGCT
ACAACCTCTCCGAGATGAAGTTCGGACCTTTCTGGAAAAACGAGTCTGGGATTCCGGAAGCTGAC
CCCCAGTGAGATGGACCTGTTCCCTGATTATGGCTACGGCTGGTTCAATACAAGCCTCCTTCTAGAGGG
AAGAGCTACCTGCCATGGCTAACTGAGAGGTTAACTGAGAGGGGAGTGAAGCTTATCCATCGGAAGGTGG
AGTCTCTCGAAGAGGTGGCAAGAGGAGTGGATGTGATTATCAACTGCACCGGGGTGTGGCCGGGCCCT
GCAAGCAGATGCCTCCCTGCAGCCAGGCCGGGCCAGATCATCCAGGTGGAGGCCCTTGATTAAACAC
TTCATCTCACCCATGATCCTAGCCTTGGTATCTACAACCTCTCCGTACATCATCCAGGAATGCAAGAAT
TGTGGTGAAGTCACTGGCTTCGGCCAGTCCGGCCTCAGGTCCGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>MG203164 representing BC015269

Red=Cloning site Green=Tags(s)

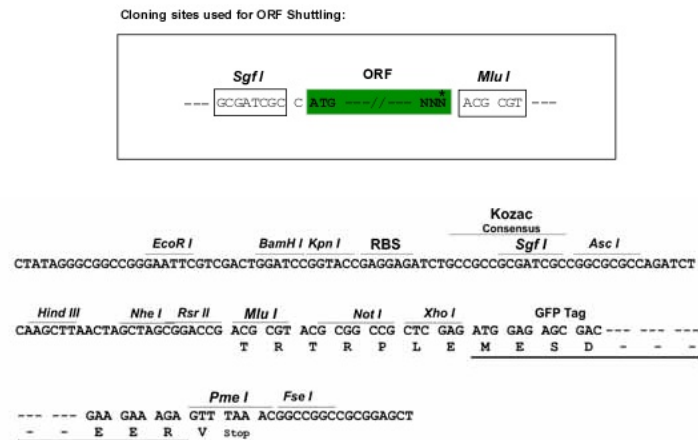
MRVAVIGAGVIGLSTALCIHERYHPTQPLHMKIYADRFPTFTSDVAAGLWQPYLSDPSNPQEAWSQQT
FDYLLSCLHSPNAEKMLALISGYNLFREVPDPFWKNAVLGFRKLTPEMDLFPDYGYGWFNTSLLLEG
KSYLPWLTERLTERGVKLIHRKVESLEEVARGVDVIINCTGVWAGALQADASLQPRGQIIQVEAPWIKH
FILTHDPSLGIYNSPYIIPGMQELWVNSLASGQSGLRSG

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

BC015269

ORF Size:

747 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:

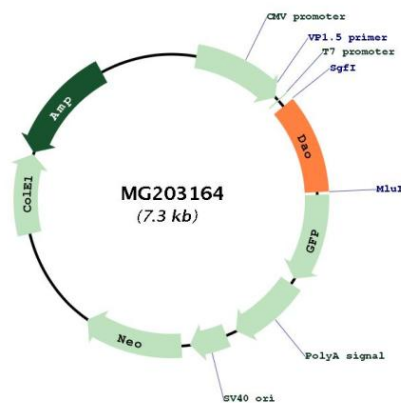
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	BC015269 , AAH15269
RefSeq Size:	1537 bp
RefSeq ORF:	749 bp
Locus ID:	13142
Cytogenetics:	5 55.93 cM
Gene Summary:	Regulates the level of the neuromodulator D-serine in the brain. Has high activity towards D-DOPA and contributes to dopamine synthesis. Could act as a detoxifying agent which removes D-amino acids accumulated during aging. Acts on a variety of D-amino acids with a preference for those having small hydrophobic side chains followed by those bearing polar, aromatic, and basic groups. Does not act on acidic amino acids.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG203164