

Product datasheet for **MC227176**

Dao (NM_001286396) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dao (NM_001286396) Mouse Untagged Clone
Tag: Tag Free
Symbol: Dao
Synonyms: AI987963; DAAO; DAMOX; Dao-1; Dao1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC227176 representing NM_001286396
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCGCGTGGCCGTGATCGGAGCAGGAGTCATTGGGCTCTCCACAGCCCTCTGCATTCATGAGCGTTACC
ACCCAACACAGCCACTGCACATGAAGATCTATGCAGATCGATTACCCCGTTACCACGAGCGATGTGGC
CGCCGGCCTCTGGCAGCCTTATCTCTGACCCAGCAACCCCTCAGGAGGCGGAGTGGAGCCAGCAAACG
TTTGATTACCTGCTGAGCTGCCTCCATTCTCAAACGCTGAAAAAATGGGCTGGCCCTAATCTCAGGCT
ACAACCTCTCCGAGATGAAGTCCGGACCCCTTCTGGAAAAACGCAGTCTGGGATCCGGAAGCTGAC
CCCCAGTGAGATGGACCTGTTCCCTGATTATGGCTACGGCTGGTCAATACAAGCCTCCTCTAGAGGGG
AAGAGCTACCTGCCATGGCTAACTGAGAGGTTAACTGAGAGGGGAGTGAAGCTTATCCATCGGAAGGTGG
AGTCTCTGAAGAGGTGGCAAGAGGAGTGGATGTGATTCAACTGCACCGGGGTGTGGCCGGGGCCCT
GCAAGCAGATGCCTCCCTGCAGCCAGGCCGGGCCAGATCATCCAGGTGGAGGCCCTTGGATTAACAC
TTCATCTCACCCATGATCCTAGCCTTGGTATCTACAACCTCCGTACATCATCCAGGTCCAAGACAG
TTACGCTCGGGGTATATTCCAGCTGGGAACCTGGAGCGGGTTAAACAGCGTCCGTGACCAACAATACCAT
TTGGAAGAGCTGCTGTAACCTGGAGCCACCCCTGAAGAATGCAAGAATTGTGGTGAACCTACTGGCTTC
CGGCCAGTCCGGCCTCAGGTCCGGCTAGAAAGAGAATGGCTTCATTTTGGATCTTCAAGTGCAGAGGTCA
TCCACAATATGGTCATGGAGGTTACGGGCTCACAATCCACTGGGGTTGTGCAATGGAGGCGGCCAACCT
CTTCGGGAAAAATTCTAGAGGAAAAGAAGTTGTCCAGGTTGCCTCCCTCCACCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001286396



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Insert Size:	1038 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001286396.1 , NP_001273325.1
RefSeq Size:	1859 bp
RefSeq ORF:	1038 bp
Locus ID:	13142
UniProt ID:	P18894
Cytogenetics:	5 55.93 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same protein (isoform 1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>