

## Product datasheet for MC202911

### Dao (NM\_010018) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dao (NM_010018) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dao
Synonyms:	AI987963; DAAO; DAMOX; Dao-1; Dao1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC018377 sequence for NM\_010018  
TGCCGGCTGATGGCTGCTGTGAGGTACATTCAGGCTGAACTGGGCTGCTGTGATGCGCGTGGCCGTGATC  
GGAGCAGGAGTCATTGGGCTCTCCACAGCCCTCTGCATTCATGAGCGTTACCACCAACACAGCCACTGC  
ACATGAAGATCTATGCAGATCGATTACCCCGTTACCACGAGCGATGTGGCCGCGGCCCTTGGCAGCC  
TTATCTCTCTGACCCAGCAACCCTCAGGAGGCGGAGTGGAGCCAGCAAACGTTTGATTACCTGCTGAGC  
TGCCCTCCATTCTCCAAACGCTGAAAAAATGGGCTGGCCCTAATCTCAGGCTACAACCTCTCCGAGATG  
AAGTTCGGACCCCTTTCTGAAAAACGCAGTTCTGGGATTCCGGAAGCTGACCCCAAGTGAAGTGGACCT  
GTTCCCTGATTATGGCTACGGCTGGTCAATAACAAGCCTCCTTCTAGAGGGGAAGAGCTACCTGCCATGG  
CTAACTGAGAGGTTAACTGAGAGGGGAGTGAAGCTTATCCATCGGAAGGTGGAGTCTCTCGAAGAGGTGG  
CAAGAGGAGTGGATGTGATTATCAACTGCACCGGGGTGTGGGCCGGGCCCTGCAAGCAGATGCCTCCCT  
GCAGCCAGGCCGGGCCAGATCATCCAGGTGGAGGCCCTTGGATTAACACTTTCATCCTCACCCATGAT  
CCTAGCCTTGGTATCTACAACCTCCGTACATCATCCCAGGTTCCAAGACAGTTACGCTCGGGGGTATAT  
TCCAGCTGGGGAAGTGGAGCGGGTTAAACAGCGTCCGTGACCACAATACCATTTGGAAGAGCTGCTGTAA  
ACTGGAGCCCACCTGAAGAATGCAAGAATTGTGGGTGAACTCACTGGCTTCCGGCCAGTCCGGCCCTCAG  
GTCCGGCTAGAAAAGAAATGGCTTCATTTTGGATCTTCAAGTGCAGAGGTATCCACAACATATGGTCATG  
GAGGTTACGGGCTCAATCCACTGGGTTGTGCAATGGAGGCGGCCAACCTCTTCGGGAAAATTCTAGA  
GGAAAAGAAGTTGTCCAGGTTGCCTCCCTCCCACCTCTGAGGACTCTAGTGATCACCGTGTGCCCAAGA  
CGTACACCCCTTTCGGCCAATGATATGTGATGCTCCTGGATGATGCTCTCTCCCAGCCCCACCCCA  
GCCACTCCCCAACCCACCCGACCACTCCCCAGCCCCGCGGCCACTCCCCAGCCCCACCCCTGGCTT  
CCTCTGGCAAAGGCATGAAGGGAGGAAATCTTGCTGCTCCTGCCACTCATCCACTGCTGCCTGGTCTT  
CAGTGCAGTGATTCTTGCTGGTCTAACAAGGCTTGGGTGAGATAGGCTGCGTGGTGAATTTCTCTCA  
AGCCGTAGTGACTGTACTGAGGCTGGTGTACCGGTGGCAGGACCTGCGTTACAGCCTATAAGGAGTGG  
TCTGGATCTTTGCTTAGAACTCTGACGAATGGTTCACAACACACTCCATGCGTATCTGTAGTGTGGGA  
GGAGGGGGTTAGGAGCAGGACGTTGGGGAGAGGAGGAGGAGTTGGAGGAGGAGCACTCCACTGGTCAACA  
TTATTAACACTGGATATCCAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI



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<b>ACCN:</b>	NM_010018
<b>Insert Size:</b>	1038 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC018377</a> , <a href="#">AAH18377</a>
<b>RefSeq Size:</b>	1646 bp
<b>RefSeq ORF:</b>	1038 bp
<b>Locus ID:</b>	13142
<b>UniProt ID:</b>	<a href="#">P18894</a>
<b>Cytogenetics:</b>	5 55.93 cM
<b>Gene Summary:</b>	<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 (1) represents the longest transcript and encodes the longer protein (isoform 1). Variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>