

Product datasheet for **MR208442**

Maoa (NM_173740) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Maoa (NM_173740) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Maoa
Synonyms:	1110061B18Rik; AA407771
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208442 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACGGATCTGGAGAAGCCAGTATCACAGGCCACATGTTTCGACGTAGTCGTGATTGGAGCGGCCATCT
 CAGGATTGGCTGCTGCCAACTATTGTCAGAATACAAAATTAATGTCTTGTTCTGGAAGCCCGGATAG
 AGTTGGAGGAAGAACATATACTGTGAGGAATGAGCATGTTAAATGGGTAGATGTTGGTGGAGCTTATGTG
 GGACCAACCCAGAACAGAATCTTACGCTTGTCTAAGGATCTAGGCATAGAGACCTATAAAGTGAATGTCA
 ATGAGCGTCTAGTTCAATATGTCAAGGGGAAAACCTACCCATTCCGTGGTGCATTCCACCTGTGTGGAA
 CCCCTTGGCATATTTGGATTACAACAACCTGTGGAGGACAATGGATGATATGGGAAAAGAGATCCCTGTT
 GATGCACCATGGCAAGCAAGACATGCTGAGGAATGGGACAAGATAACCATGAAAGATCTCATTGATAAAA
 TCTGTTGGACAAAACCTGCTCGAGAATTTGCTTATCTTTTGTGAACATTAATGTGACTTCTGAGCCTCA
 TGAGGTATCTGCCCTGTGGTCTTGTGGTATGTGAGGCAGTGTGGAGGTACCTCTCGGATATTCTCAGTC
 ACCAATGGCGGCCAGGAACGGAAATTTGTAGTGGCTCTGGCCAAATAAGTGAACAGATAATGGTCTCTCC
 TTGGGGATAAAGTGAAGCTGAGCTCTCCTGTTACTTATATTGACCAAAACAGATGACAACATCATTATAGA
 AACACTGAATCATGAGCACTATGAGTGCAAATATGTAATTAGTGCCATCCACCGGTTTTGACTGCCAAG
 ATCCACTTTAAACCAGAGCTTCCACCTGAGAGAAAACCAATTAATTCAGCGTCTTCCAATGGGGGCTGTCA
 TCAAGTGCATGGTGTATTACAAGGAAGCCTTCTGGAAGAAAAAGGACTATTGTGGCTGCATGATAATTGA
 AGATGAGGAGGCTCCAATTTCAATCACTCTGGATGACACTAAACCAGATGGGTCAATGCCTGCCATCATG
 GGCTTCACTTGGCCGAAAGCTGAACGACTTGCTAACTACATAAAGACATAAGGAAGAGGAAAATCT
 GTGAGCTGTATGCCAAAGTTCTGGGATCTCAAGAAGCTTATCTCCCGTCCATTATGAAGAGAAGAACTG
 GTGTGAGGAGCAGTACTCCGGGGCTGCTACACAGCCTACTTCCCTCTGGTATCATGACTCTGTATGGA
 AGGGTGATTTCGGCAGCCAGTAGGCAGGATTTACTTTCAGGCACAGAGACAGCAACACAGTGGAGTGGCT
 ACATGGAAGTGCAGTTGAAGCTGGAGAACGAGCAGCTAGAGAGGTCTTGAATGCTCTAGGAAAAGTTGC
 CAAGAAGGATATATGGGTTCAAGAGCCTGAGTCCAAGGATGTTCCAGCTCTTGAATTACCCACACCTTC
 TTAGAGAGGAACCTGCCTTCCGTGCCTGGTCTGCTCAAGATCACTGGTTTTTCCACTTCTGTGGCTCTTC
 TCTGCTTTGTATTGTACAAGTTAAACAGCCCCAGTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208442 protein sequence
 Red=Cloning site Green=Tags(s)

MTDLEKPSITGHMFDVVVIGGGISGLAAAKLLSEYKINVLVLEARDRVGGRTYTVRNEHVKWDVGGAYV
 GPTQNRILRLSKDLGIETYKVNVERLVQYVKGKTYPFRGAFPPVWNPLAYLDYNNLWRTMDDMGKEIPV
 DAPWQARHAEEDKIMTKDLIDKICWTKTAREFAYLFVNINVTSEPHVSALWFLWYVRQCGGTSRIFSV
 TNGGQERKFVGGSGQISEQIMVLLGDKVKLSSPVTYIDQTDNIIETLNHEHYECKYVISAIPPVLTAK
 IHFKPELPPERNQLIQRLPMGAVIKCMVYYKEAFWKKDYCGCMIIEDEEAPISITLDDTKPDGSMIPA
 IMFILARKAERLAKLHKDIRKRKICELYAKVLGSQEALSPVHYEKNWCEEQYSGGCYTAYFPPGIMTLYG
 RVIRQPVGRIYFAGTETATQWSGYMEGAVEAGERAAAREVLNALGKVAKKDIWVQEPESKDVPALEITHTF
 LERNLPSVPGLLKITGFSTSVALLCFVLKFKQPQS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_173740

ORF Size: 1581 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.

RefSeq: [NM_173740.1](#)

RefSeq Size: 4161 bp

RefSeq ORF: 1581 bp

Locus ID: 17161

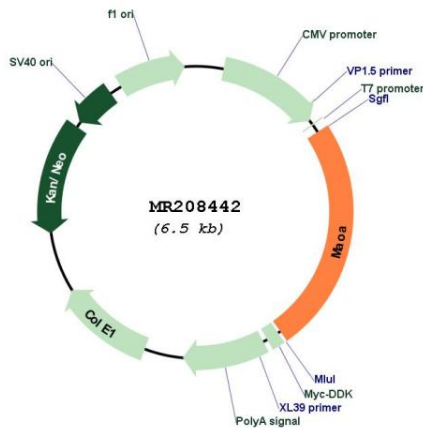
UniProt ID: [Q64133](#)

Cytogenetics: X 11.78 cM

MW: 59.6 kDa

Gene Summary: Catalyzes the oxidative deamination of biogenic and xenobiotic amines and has important functions in the metabolism of neuroactive and vasoactive amines in the central nervous system and peripheral tissues. MAOA preferentially oxidizes biogenic amines such as 5-hydroxytryptamine (5-HT), norepinephrine and epinephrine (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208442