

Product datasheet for **RR216851**

Maoa (NM_033653) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Maoa (NM_033653) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Maoa
Synonyms:	Mao
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR216851 representing NM_033653
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACGGATCTGGAGAAGCCAATCTCGCAGGCCACATGTTTCGACGTAGTCGTGATTGGAGCGGCATCT
 CAGGATTGGCTGCTGCCAACTGTTGTCTGAATACAAAATTAATGTCTTGGTTTTGGAAGCCCGGATAG
 AGTTGGAGGAAGAACATATACTGTGAGGAATGAGCATGTCAAATGGGTAGATGTTGGTGGAGCCTATGTG
 GGACCAACCCAGAACAGAATCTTACGCTTGTCTAAGGAGCTAGGCATAGAGACCTATAAAGTGAATGTCA
 ATGAGCGTCTAGTTCAATATGTCAAGGGGAAAACCTACCATTCCGTGGTGCATTCCCACCTGTGTGGAA
 CCCCTTGGCATATTTGGATTACAACAACCTATGGAGAACAATGGATGAAATGGGAAAAGAGATCCCCGT
 GATGCACCGTGGCAAGCAAGACACGCTCAGGAATGGGACAAGATGACCATGAAAGATCTCATTGATAAAA
 TCTGTTGGACAAAACCTGCTCGGAATTTGCGTATCTTTTGTGAACATTAATGTGACTTCTGAGCCTCA
 TGAGGTATCTGCCCTGTGGTTCTGTGGTATGTGAGGCAGTGTGGGGCAGTCTCGGATATTCTCAGTT
 ACCAATGGCGGCCAGGAACGGAAATTTGTAGGTGGATCTGGCCAAGTAAGTGAACAGATAATGGGTCTCC
 TTGGAGATAAAGTGAAGCTGAGCTCTCCTGTTACTTATATTGACCAAAACAGATGACAACATCATTGTAGA
 AACACTGAATCATGAACACTATGAGTGCAAATACGTAATTAGTGCCATCCACCGATTTTACTGCTGCAAG
 ATCCACTTTAAACCAGAGCTTCCACCTGAGAGAAAACCAATTAATTCAGCGTCTTCCAATGGGGGCTGTTA
 TCAAGTGCATGGTGTATTACAAGGAAGCCTTCTGGAAGAAAAAGGACTATTGTGGCTGCATGATCATTGA
 AGATGAGGAGGCTCCAATCGCCATCACTCTGGATGACACTAAACCAGATGGGTCACTGCCTGCCATCATG
 GGCTTCATACTTGCCCGAAAGCTGATCGACTTGCTAAACTACATAAAGACATAAGGAAGAGGAAAATCT
 GTGAGCTGTATGCCAAAGTTCTGGGATCTCAAGAAAGCATTATATCCAGTCCATTATGAAGAGAAGAACTG
 GTGTGAGGAGCAGTACTCCGGGGCTGCTACACAGCCTACTTCCCTCCTGGTATCATGACCCAGTATGGA
 AGGGTGATTCCGCCAGCCAGTAGGTAGGATTTACTTTGCAGGCACAGAGACAGCAACACAGTGGAGTGGCT
 ACATGGAAGGAGCAGTTGAAGCTGGAGAACGAGCAGCTAGAGAGGTGTTGAATGCTCTAGGAAAAGTCGC
 GAAGAAGGATATATGGGTTGAAGAACCCGAGTCCAAGGATGTTCCAGCCATTGAAATTACCCACACCTTC
 TTAGAGAGGAACCTGCCTTCCGTGCCTGGTCTGCTCAAGATCACTGGTGTTCCTACTTCTGTGGCTCTTC
 TCTGCTTTGTATTGTACAAGATTAAGAAGCTCCCATGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR216851 representing NM_033653
 Red=Cloning site Green=Tags(s)

MTDLEKPNLAGHMFVIVGGISGLAAAKLLSEYKINVLVLEARDRVGGRTYTVRNEHVKWDVGGAYV
 GPTQNRILRLSKELGIETYKVNVERLVQYVKGKTYPFRGAFPPVWNPLAYLDYNNLWRTMDEMGEIPV
 DAPWQARHAQEWDKMTMKDLIDKICWTKTAREFAYLNVNINVTSEPHEVSALWFLWYVRQCGGTARIFSV
 TNGGQERKFVGGSGQVSEQIMGLLGDKVKLSSPVTYIDQTDNIIIVETLNHEHYECKYVISAIPPILTAK
 IHFKPELPPERNQLIQRLPMGAVIKCMVYKFAFWKKDYCGCMIIEDEEAPIAITLDDTKPDGSLPAIM
 GFILARKADRLAKLHKDIRKRKICELYAKVLGSQEALYPVHYEKNWCEEQYSGGCYTAYFPPGIMTYG
 RVIRQPVGRIYFAGTETATQWSGYMEGAVEAGERAAREVLNALGKVAKKDIWVEEPESKDVPVPAIEITHTF
 LERNLPSVPGLLKITGVSTSVALLCFVLKIKKLLPC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_033653

ORF Size: 1578 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

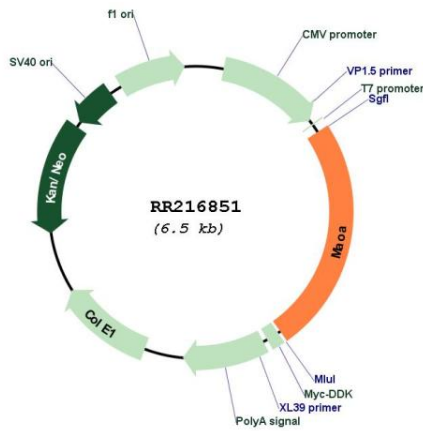
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_033653.1, NP_387502.1</u>
RefSeq Size:	2083 bp
RefSeq ORF:	1581 bp
Locus ID:	29253
Cytogenetics:	Xq11
MW:	59.5 kDa
Gene Summary:	enzyme involved in the oxidative deamination of biogenic and xenobiotic amines [RGD, Feb 2006]

Product images:



Circular map for RR216851