

Product datasheet for **MG208442**

Maoa (NM_173740) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Maoa (NM_173740) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Maoa
Synonyms:	1110061B18Rik; AA407771
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208442 representing NM_173740
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACGGATCTGGAGAAGCCAGTATCACAGGCCACATGTTTCGACGTAGTCGTGATTGGAGCGGCCATCT
 CAGGATTGGCTGCTGCCAACTATTGTCAGAATACAAAATTAATGTCTTGTTCTGGAAGCCCGGATAG
 AGTTGGAGGAAGAACATATACTGTGAGGAATGAGCATGTTAAATGGGTAGATGTTGGTGGAGCTTATGTG
 GGACCAACCCAGAACAGAATCTTACGCTTGTCTAAGGATCTAGGCATAGAGACCTATAAAGTGAATGTCA
 ATGAGCGTCTAGTTCAATATGTCAAGGGGAAAACCTACCCATTCCGTGGTGCATTCCACCTGTGTGGAA
 CCCCTTGGCATATTTGGATTACAACAACCTGTGGAGGACAATGGATGATATGGGAAAAGAGATCCCTGTT
 GATGCACCATGGCAAGCAAGACATGCTGAGGAATGGGACAAGATAACCATGAAAGATCTCATTGATAAAA
 TCTGTTGGACAAAACCTGCTCGAGAATTTGCTTATCTTTTGTGAACATTAATGTGACTTCTGAGCCTCA
 TGAGGTATCTGCCCTGTGTTCTTGTGGTATGTGAGGCAGTGTGGAGGTACCTCTCGGATATTCTCAGTC
 ACCAATGGCGGCCAGGAACGGAAATTTGTAGGTGGCTCTGGCCAAATAAGTGAACAGATAATGGTCTCC
 TTGGGGATAAAGTGAAGCTGAGCTCTCCTGTTACTTATATTGACCAAAACAGATGACAACATCATTATAGA
 AACACTGAATCATGAGCACTATGAGTGCAAATATGTAATTAGTGCCATCCACCGGTTTTGACTGCCAAG
 ATCCACTTTAAACCAGAGCTTCCACCTGAGAGAAAACCAATTAATTCAGCGTCTTCCAATGGGGGCTGTCA
 TCAAGTGCATGGTGTATTACAAGGAAGCCTTCTGGAAGAAAAAGGACTATTGTGGCTGCATGATAATTGA
 AGATGAGGAGGCTCCAATTTCAATCACTCTGGATGACACTAAACCAGATGGGTCAATGCCTGCCATCATG
 GGCTTCATACTTGCCCGAAAGCTGAACGACTTCTAACTACATAAAGACATAAGGAAGAGGAAAATCT
 GTGAGCTGTATGCCAAAGTTCTGGGATCTCAAGAAGCTTATCTCCCGTCCATTATGAAGAGAAGAACTG
 GTGTGAGGAGCAGTACTCCGGGGCTGCTACACAGCCTACTTCCCTCCTGGTATCATGACTCTGTATGGA
 AGGGTGATTCCGGCAGCCAGTAGGCAGGATTTACTTTGCAGGCACAGAGACAGCAACACAGTGGAGTGGCT
 ACATGGAAGGTGCAGTTGAAGCTGGAGAACGAGCAGCTAGAGAGGTCTTGAATGCTCTAGAAAAGTTGC
 CAAGAAGGATATATGGGTTCAAGAGCCTGAGTCCAAGGATGTTCCAGCTCTTGAATTACCCACACCTTC
 TTAGAGAGGAACCTGCCTCCGTGCCTGGTCTGCTCAAGATCACTGGTTTTTCCACTTCTGTGGCTCTTC
 TCTGCTTTGTATTGTACAAGTTAAACAGCCCCAGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208442 representing NM_173740
 Red=Cloning site Green=Tags(s)

MTDLEKPSITGHMFDVVVIGGGISGLAAKLLSEYKINVLVLEARDRVGGRTYTVRNEHVKWDVGGAYV
 GPTQNRILRLSKDLGIETYKVNVERLVQYVKGKTYPFRGAFPPVWNPLAYLDYNNLRWMTDDMGKEIPV
 DAPWQARHAEEDWKITMKDLIDKICWTKTAREFAYLFVNINVTSEPEVSALWFLWYVRQCGGTSRIFSV
 TNGGQERKFVGGSGQISEQIMVLLGDKVKLSSPVTYIDQTDNIIETLNHEHYECKYVISAIPPVLTAK
 IHFKPELPPERNQLIQRLLPMGAVIKCMVYKFAFWKKDYCGCMIIEDEEAPISITLDDTKPDGSMPAIM
 GFILARKAERLAKLHKDIRKRKICELYAKVLGSQEALSPVHYEKNWCEEQYSGGCYTAYFPPGIMTLYG
 RVIRQPVGRIYFAGTETATQWSGYMEGAVEAGERAAAREVLNALGKVAKKDIWVQEPESKDVPALEITHTF
 LERNLPSVPGLLKITGFSTSVALLCFVLKFKQPQS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_173740
ORF Size:	1578 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:	<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_173740.1
RefSeq Size:	4068 bp
RefSeq ORF:	1581 bp
Locus ID:	17161
UniProt ID:	Q64133
Cytogenetics:	X 11.78 cM
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]