

Product datasheet for **MG226825**

Maob (NM_172778) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Maob (NM_172778) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Maob
Synonyms:	6330414K01Rik; MAO-B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226825 representing NM_172778
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGCAACAAAAGCGATGTGATCGTGGTGGGGGCGGCATCTCAGGTATGGCGGACGCCAACTTCTGC
 ATGATTGTGGCCTCAGTGTGGTGGTTCTGGAAGCACGGGACCGTGTAGGAGGCAGGACTTACACAATTAG
 GAATAAAAACGTTAAATATGTGGACCTTGAGGATCTTATGTTGGGCCAACCCAGAAATCGTATCTTACGA
 TTGGCCAAAGAGCTAGGATTGGAGACCTATAAAGTTAATGAAGTTGAGCGGCTGATACACTTTGTAAGG
 GAAATCATATGCCTTCAGGGGCCATTCCACCAGTATGGAATCCTATCACCTACCTAGATAATAACAA
 CCTCTGGAGGACAATGGATGAGATGGGCCAAGAGATTCCAGTGTGCTCCATGGAAAGCACCCCTTGCT
 GAAGAGTGGGACTACATGACAATGAAAGAATTGCTAGATAAGATCTGCTGGACCAATCTACAAAGCAGA
 TTGCCACGCTCTTTGTAACCTGTGTAACTGCAGAGACCCATGAGGTCTCTGCACTATGGTTCCTGTG
 GTATGTGAAGCAGTGTGGAGGTACAACCAGAATCATCTCAACAACCAATGGAGGACAGGAGAGAAATTT
 ATTGGTGGATCTGGTCAAGTGAAGTGAACGGATAAAGGATATACTTGGGGACCGAGTGAAGCTGGAGAGGC
 CTGTGATCCACATTGACCAGACAGGGGAAAATGTTATTGTGAAAACCTAAACCATGAAATATATAGGGC
 TAAATATGTGATTAGTGCCATTCACCTGCTTTGGGCATGAAGATTCACTATAGTCCCTCTGCCCATG
 CTAAGAAACCAGCTGATCTCTCGTGTGCCTTTGGGTTCAAGTTAATAATGCATGGTTTATTACAAAGAGC
 CCTTCTGGAGGAAAAAGGATTTCTGTGGAACCATGGTTATCGAAGGAGAGGAAGCTCCAATTGCATACAC
 ATTGGATGATACCAAACAGATGGCACCTATGCTGCTATAATGGGATTTATCCTTGCTCACAAAGCTAGA
 AAACGGTACGTCTACCAAAGAAGAAAGACTGAGGAACTTTGTGAGCTATATGCAAAAGTGTGAACT
 CCCAAGAAGCTCTGCAGCCCGTCCATTATGAAGAGAAGAACTGGTGTGAGGAACAGTATTTCTGGGGCTG
 CTACACAACCTACTTCCCTCCCGCATCTTGACCCAGTATGGAAGGGTTCTACGTACGCCAGTGGGCAAG
 ATTTTCTTTGCAGGCACTGAAACAGCCTCACACTGGAGCGGCTACATGGAGGGGGCTGTGGAGGCTGGGG
 AGAGAGCAGCCAGAGAGATTCTCATGCCATTGGGAAGATTCCAGAAGATGAAATTTGGCAGCCAGAACC
 AGAATCTTTGGATGTCCCTGCACGACCCATTACCAGTACCTTCTGGAGAGACACCTGCCTTCTGTACCA
 GGCCTGCTAAAGCTGTTTGGATTGACCACCATCTGTGAGCAACAGCTCTTGTTTCTGGCCACAAAA
 GGGCCTGTTTGTACATTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226825 representing NM_172778
 Red=Cloning site Green=Tags(s)

MSNKSDVIVVGGISGMAAAKLLHDCGLSVVLEARDRVGGRTYTI RNKNVKYVDLGGSYVGPTQNRILR
 LAKELGLETYKNEVERLIHFVKGSYAFRGPFPVWNPITYLDNNNLWRTMDEMGQEIPSDAPWKAPLA
 EEWDYMTMKELLDKICWTKSTKQIATL FVNLCVTAETHEVSALWFLWYVKQCGGTTRIISTTNGGQERKF
 IGGSGQVSEIKDILGDRVKLERPVIHIDQTGENVIVKTLNHEIYEAKYVISAIPPALGMKIHYSPPLPM
 LRNQLISRVPPLGSIKCMVYYKEPFWRKKDFCGTMVIEGEEAPIAYTLDDTKPDGTYYAIMGFILA HKAR
 KLVRLTKEERLRKLCELYAKVLNSQEALQPVHYEEKNWCEEQYSGGCYTTYFPPGILTQYGRVLRQPVGK
 IFFAGTETASHWSGYMEGAVEAGERAAAREILHAIGKIPEDIWQPEPESLDVPARPITSTFLERHLPVSP
 GLLKLFGLTTILSATALGFLAHRKGLFVHF

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

ACCN:	NM_172778
ORF Size:	1560 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_172778.2 , NP_766366.2
RefSeq Size:	2428 bp
RefSeq ORF:	1563 bp
Locus ID:	109731
UniProt ID:	Q8BW75
Cytogenetics:	X 11.88 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. MAOB preferentially degrades benzylamine and phenylethylamine (By similarity).[UniProtKB/Swiss-Prot Function]