

Product datasheet for **MG208534**

Fmo1 (NM_010231) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fmo1 (NM_010231) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fmo1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208534 representing NM_010231
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGAAGCAGTGGCAATTGTGGGAGCTGGGGTTCAGCGGCCTGGCCTCCATCAAGTCTGCCTGGAAG
 AGGGGCTGGAGCCACCTGCTTCGAGAGGAGCAGTGACCTGGGGGACTTTGGAGATTCACGGAACATGT
 TGAAGAAGGGAGAGCCAGTCTTTACAAGTCTGTGGTTTCTAACAGCAGCAGGGAGATGTCGTGTTACCCA
 GATTTTCTTTTCCAGAAGACTATCCAACTTTGTGCCAAATTCTCTATTCTGGAATATCTCAAATCT
 ACTCAACCCAGTTCAACCTTCAGAGATGCATTTATTTCAATACCAAAGTGTGCAGTATAACAAAACGCC
 GGATTTTGTCTCTGGACAGTGGGAAGTGGTCACTGTCACAAACGGGAAGCAAACTCAGCCATCTTT
 GATGCTGTCATGGTCTGCACTGGTTTTCTAACTAACCCACATCTGCCCTGGATTCCTTCCAGGTATAC
 TAACTTTAAGGGGAGTACTTCCACAGCCGACAGTATAAACATCCAGACATTTAAGGACAAGCGAGT
 CCTTGTAGTTGGAATGGGAATTCTGGCACAGATATTGCCGTGGAGGCCAGCCACTTAGCAAAAAGGTG
 TTCTCAGCACTACTGGAGGGGCATGGGTGATCAGCCGAGTCTTTGATTCAGGGTACCCATGGGACATGA
 TATTCATGACACGATTTCAGAACATGCTCAGAAATCTTCTCCAACTCCAATTGTGAGTTGGTTGATATC
 AAAAAAGATGAACAGCTGGTTCAACCACGTGAATTACGGTGTAGCTCCAGAAGACAGGACTCAGCTGAGA
 GAGCCTGTGCTAAATGATGAGCTCCAGGCCGATCATCACTGGGAAAGTGTTCATCAAGCCAGCATCA
 AGGAGGTAAGGAAAACTCTGTCGTGTTCAACAACACACCAAAGGAGGAGCCATTGACATCATCGTCTT
 TGCGACTGGATACTTTTTCGTTCCCTTCTCGATGAATCCGTAGTAAAAGTTGAGGATGGCCAGGCA
 TCACTGTACAAGTACATCTTCCCTGCCATCTGCCAAAACCAACTCTGGCTGTGATTGGCCTCATCAAGC
 CCCTGGGCTCCATGGTACCCACAGGAGACACAAGCTCGATGGGTTGTTGAGGCTCTAAAAGGTGCAAC
 TACATTACCACCCCAAGTGTATGATGGAGGAAGTTAATGAACGGAAGAAAAACAAGCATAGCGGGTTT
 GGCTTGTGCTACTGCAAGGCTTTGCAAACAGATTATAACATACATAGATGACCTCCTGACCTCTATCA
 ACGCAAACCGGATCTGCGGGCCATGCTCCTGACTGACCCACGACTGGCTCTGAGCATCTTCTTTGGCCC
 ATGTACCCTTACCATTTCGCTGACTGGTCCAGGAAAATGGGAAGGAGCCAGAAAGGCCATCTTGACC
 CAGTGGGACCGAACAGTGAAGTACCAAACTCGAACCATACAAGAATCCCATCTTCTTTGAAACTT
 TGCTGAACTCTTAGTTTTCTGGCTTGTCTCATAGCTGTCTTCTTGATTTCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

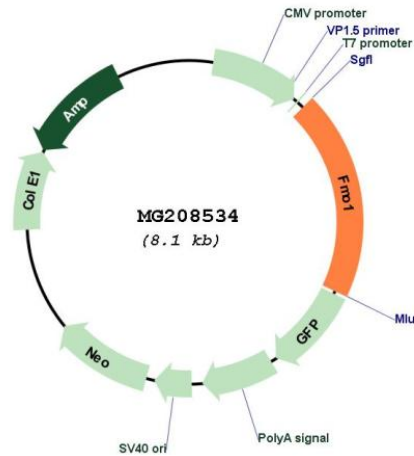
>MG208534 representing NM_010231
 Red=Cloning site Green=Tags(s)

MVKRVAIVGAGVSGLASIKCCLEEGLEPTCFERSSDLGGLWRFTEHVEEGRASLYKSVVSNSSREMSCYP
 DFPFPEDYPNFPNSLFLEYLKYSTQFNLQRCIYFNKVCISITKRPDFAVSGQWEVVTVTNGKQNSAIF
 DAVMVCTGFLTNPPLDSFPGILTFKGEYFHSRQYKHPDIFKDKRVLVGMGNSGTDIAVEASHLAKKV
 FLSTTGGAWVISRVFDSGYPWDMIFMTRFQNLRLNLLPTPIVSWLISKMNNSWFNVNYGVAPEDRTQLR
 EPVLNDELPGRIITGKVFIKPSIKEVKENSVVFNNTPKKEEPIDIIVFATGYTFAFPFLDESVMKVEDGQA
 SLYKYIFPAHLPKPTLAVIGLIKPLGSMVPTGETQARWVQVLKGATTLPPPSVMMEEVNERKKNKHSF
 GLCYKALQTDYITYIDLLTSINAKPDLRMLLTDPRLLALSIFFGPCTPYHFRLTGPGKWEKARKAILT
 QWDRVTVKTRTIQESPFETLLKLSFLALLIAVFLIFL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Plasmid Map:


ACCN:	NM_010231
ORF Size:	1596 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_010231.3](#)

RefSeq Size: 2349 bp

RefSeq ORF: 1599 bp

Locus ID: 14261

UniProt ID: [P50285](#)

Cytogenetics: 1 70.34 cM

Gene Summary: This protein is involved in the oxidative metabolism of a variety of xenobiotics such as drugs and pesticides. Form I catalyzes the N-oxygenation of secondary and tertiary amines. [UniProtKB/Swiss-Prot Function]