

Product datasheet for **MR208534**

Fmo1 (NM_010231) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fmo1 (NM_010231) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fmo1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208534 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGAAGCAGTGGCAATTGTGGGAGCTGGGGTTCAGCGGCCTGGCCTCCATCAAGTGCTGCCTGGAAG
 AGGGGCTGGAGCCACCTGCTTCGAGAGGAGCAGTGACCTGGGGGACTTTGGAGATTCACGGAACATGT
 TGAAGAAGGGAGAGCCAGTCTTTACAAGTCTGTGGTTTCTAACAGCAGCAGGGAGATGTCGTGTTACCCA
 GATTTTCTTTTCCAGAAGACTATCCAACTTTGTGCCAAATTCTCTATTCTGGAATATCTCAAATCT
 ACTCAACCCAGTTC AACCTTCAGAGATGCATTTATTTCAATACCAAAGTGTGCAGTATAACAAAACGCC
 GGATTTTGTCTCTGGACAGTGGGAAGTGGTCACTGTCACAAACGGGAAGCAAACCTCAGCCATCTTT
 GATGCTGCATGGTCTGCACTGGTTTTCTAACTAACCCACATCTGCCCTGGATTCCTTCCAGGTATAC
 TAACTTTAAGGGGGAGTACTTCCACAGCCGACAGTATAAACATCCAGACATATTAAGGACAAGCGAGT
 CCTTGTAGTTGGAATGGGAATTCTGGCACAGATATTGCCGTGGAGGCCAGCCACTTAGCAAAAAGGTG
 TTCTCAGCACTACTGGAGGGGCATGGGTGATCAGCCGAGTCTTTGATTCAGGGTACCCATGGGACATGA
 TATTCATGACACGATTTCAGAACATGCTCAGAAATCTTCTCCAACTCCAATTGTGAGTTGGTTGATATC
 AAAAAAGATGAACAGCTGGTTCAACCACGTGAATTACGGTGTAGTCCAGAAGACAGGACTCAGCTGAGA
 GAGCCTGTGCTAAATGATGAGCTCCAGGCCGATCATCACTGGGAAAGTGTTCATCAAGCCAGCATCA
 AGGAGGTAAGGAAAACTCTGTCGTGTTCAACAACACACCAAAGGAGGAGCCATTGACATCATCGTCTT
 TGCGACTGGATACTTTTGGCTTCCCTTCTCGATGAATCCGTAGTAAAAGTTGAGGATGGCCAGGCA
 TCACTGTACAAGTACATCTTCCCTGCCATCTGCCAAAACCAACTCTGGCTGTGATTGGCCTCATCAAGC
 CCCTGGGCTCCATGGTACCCACAGGAGACACAAGCTCGATGGGTTGTTCAAGTCTAAAAGTGCAAC
 TACATTACCACCGCAAGTGTATGATGGAGGAAGTAAATGAACGGAAGAAAAACAAGCATAGCGGGTTT
 GGCTTGTGCTACTGCAAGGCTTTGCAAACAGATTATAACATACATAGATGACCTCCTGACCTCTATCA
 ACGCAAACCGGATCTGCGGGCCATGCTCCTGACTGACCCACGACTGGCTCTGAGCATCTTCTTTGGCCC
 ATGTACCCTTACCATTCCGCCTGACTGGTCCAGGAAAATGGGAAGGAGCCAGAAAGGCCATCTTGACC
 CAGTGGGACCGAACAGTGAAGTACCAAACTCGAACCATACAAGAATCCCATCTTCTTTGAAACTT
 TGCTGAAACTCTTAGTTTTCTGGCTTGTCTCATAGCTGTCTTCTTGATTTTCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208534 protein sequence
 Red=Cloning site Green=Tags(s)

MVKRVAIVGAGVSLASIKCCLEEGLEPTCFERSDDLGLWRFTEHVEEGRASLYKSVVSNSSREMSCYP
 DFPFPEDYPNFVNSLFLEYLKYSTQFNLQRCIYFNTKVCSITKRPDFAVSGQWEVVTVNGKQNSAIF
 DAVMVCTGFLTNPHLPLDSFPGILTFKGEYFHSRQYKHPDIFKDKRVLVGMGNSGTDI AVEASHLAKKV
 FLSTTGAWVISRVFDSGYPWDMIFMTRFQNMLRNLLPTPIVSWLISKMNNSWFNVNYGVAPEDRTQLR
 EPVLNDELPGRIITGKVFIKPSIKEVKENSVVFNNTPKPEPIDIIVFATGYTFAFPFLDES VVKVEDGQA
 SLYKYIFPAHLPKPTLAVIGLIKPLGSMVPTGETQARWVQVLKGATTLPPPSVMMEEVNERKKNKHSFG
 GLCYCKALQTDYITYIDLLTSINAKPDLRAMLLTDPRLALSIFFGPCTPYHFRLTGPGKWE GARKAILT
 QWDRTVKVKTRTIQESPSFETLLKLSFLALLIAVFLIFL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_010231

ORF Size: 1599 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

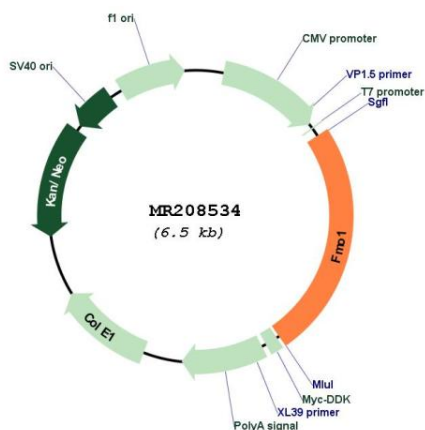
UniProt ID: [P50285](#)

Cytogenetics: 1 70.34 cM

MW: 59.9 kDa

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]

Product images:



Circular map for MR208534