

Product datasheet for **MC217562**

Fmo3 (NM_008030) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fmo3 (NM_008030) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fmo3
Synonyms:	AW111792
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF:	>MC217562 representing NM_008030 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC CGATCGCC ATGAAGAAGAAGTGGCCATCATTGGAGCTGGTGTGTCAGTGGCCTGGCTGCCATCAGGAGCTGTCTGGAGG AGGGGCTGGAGCCCACATGCTTTGAGAGGAGTGATGATGTTGGGGCCTGTGAAATTCAGACCATAT AGAAGAGGGCAGGGCCAGCATTACCAATCGGTCTTACCAACTCTTCCAAAGAGATGATGTGTTTTCCA GACTTCCCCTATCCCGATGACTTTCCCAACTTCATGCATCACAGCAAGCTCCAAGAATACATCACTTCAT TTGCCAAGGAAAAGAACCTCCTGAAATACATACAGTTTGGACACCTGTAACCAGTATAAATAAATGTCC TAATTTCTCAACTACTGGCAAATGGGAAGTCACCCTGAAAAGCACGGTAAAAAGAAACAGCTGTCTTT GATGCTACAATGATTTGTTCTGGGCATCACATATTTCCCATGTACCAAAGACTCCTTTCCAGGACTGA ACCGTTTTAAAGGCAAATGCTTCCACAGCAGGGACTATAAGGAACCGGAATATGGAAGGGAAAACGAGT CCTGGTGATTGGCCTGGGAACTCAGGCTGTGACATTGCTGCAGAACTCAGCCATGTAGCTCAGAAGGTC ACCATCAGCTCTAGAAGTGGTCTTGGGTGATGAGTCGAGTCTGGGACGATGGCTACCCTTGGGACATGG TGGTGCTCACACGGTTTCAAACCTTCTCATAAAACAACCTACCCACCGCCATCTCTGACTGGTGGTACAC AAGGCAGATGAATGCCAGATTCAAGCACGAAAACCTATGGTTTGGTGCCTTTAAACAGAACACTCAGGAAA GAGCCCGTGTTCAATGATGAGCTCCCAGCCGCATCCTGTGTGGCATGGTGACCATCAAGCCTAATGTAA AGGAGTTCACAGAGACGTCCGCTGTGTTTGGAGTGGGACCATGTTTGGGCCATTGACTGTGTCATCTT TGCCACAGGCTATGGTTATGCCTACCCCTTCTGGATGACTCTATTATCAAAGCAGAAAATATGAGGTC ACTTTGTACAAAGGTGTCTTCCCTCCTCAACTAGAGAAACCAACCATGGCAGTGATTGGCCTGGTCCAGT CCCTGGGTGCCACCATCCCATAACTGACCTGCAGGCAGCTGGGCAGCACAAGTAATAAAAGGAACTTG CACTTTGCCTTCTGTAACGACATGATGGATGACATTGATGAGAAAATGGGGGAAAAGTTCAAATGGTAT GGCAATAGCACCACCATCCAGACAGATTACATTGTTTATATGGATGAACTGGCCTCCTTATTGGTGCAA AGCCCAATCTCTATGGCTGTTTCTCAAGGATCCCAGGTTGGCTGTAGAAGTGTCTTTGGCCCTTGCA CCCCTACCAGTCCGGCTGGTAGGCCAGGAAAGTGGTCAGGAGCCCGAACGCCATCTAACACAGTGG GACCGTCACTGAAGCCTATGAAGACGCGTGTGTCAGTAAAGTTCAGAAGTCTTGCTCTCACTTCTATT CCCGTTTGCTCAGGCTCCTGGCTGTTCCCGTCTGCTCATTGCTTTGTTCTTGTGTTGAT TGA AG CGGACCG ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC TGGATTACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	Sgfl-RsrII
ACCN:	NM_008030
Insert Size:	1605 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_008030.2](#), [NP_032056.1](#)

RefSeq Size: 2048 bp

RefSeq ORF: 1605 bp

Locus ID: 14262

UniProt ID: [P97501](#)

Cytogenetics: 1 70.34 cM

Gene Summary: Essential hepatic enzyme that catalyzes the oxygenation of a wide variety of nitrogen- and sulfur-containing compounds including drugs as well as dietary compounds. Plays an important role in the metabolism of trimethylamine (TMA), via the production of trimethylamine N-oxide (TMAO) metabolite. TMA is generated by the action of gut microbiota using dietary precursors such as choline, choline containing compounds, betaine or L-carnitine. By regulating TMAO concentration, FMO3 directly impacts both platelet responsiveness and rate of thrombus formation.[UniProtKB/Swiss-Prot Function]