

Product datasheet for **RC238747**

FMO1 (NM_001282693) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FMO1 (NM_001282693) Human 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:

>RC238747 representing NM_001282693
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAAGCGAGTTGCCATTGTGGGAGCTGGGGTTCAGCGGCCTGGCCTCCATCAAGTGTCTGGAAG
 AAGGACTGGAGCCACCTGCTTTGAGAGGAGCGATGACCTTGGGGGCTGTGGAGATTCACCGAACATGT
 TGAAGAAGGCAGAGCCAGTCTCTACAAGTCTGTGGTTTCCAACAGCTGCAAGGAGATGTCTTGTACTCA
 GACTTTCCATTCCAGAAGATTATCAAACATGTGCCAAATTCTCAATTCCTGGAATATCTCAAATGT
 ATGCAAACCCTTTGACCTTCTGAAACACATTCATTCAAGACCAAGTCTGCAGTGAACAAAATGCTC
 AGATTCTGCTGTCTGGCCAATGGGAGGTGGTCACTATGCATGAAGAGAAGCAAGAGTCAAGCCATCTTT
 GATGCTGCATGGTCTGCACTGGCTTTCTACTAATCCTATTTGCCACTGGATTCCTTTCCAGGTATTA
 ATGCCTTTAAAGGCCAGTACTTTTCATAGCCGGCAATATAAGCATCCAGATATATTTAAGGACAAGAGAGT
 CCTTGTGATTGGAATGGGAAATTCGGCACAGACATTGCTGTGGAGGCCAGCCACCTGGCGGAAAAGGTG
 TTCTCAGCACCACCGGAGGGGGATGGGTGATCAGCCGAATCTTTGACTCGGGCTACCCATGGGACATGG
 TGTTTCATGACACGCTTTCAGAACATGTTGAGAAATTCCTCCCAACCCCAATTGTGACTTGGTTGATGGA
 GCGAAAGATAACAACCTGGCTCAATCATGCAAATTACGGCTTAATACCAGAAGACAGGACTCAGCTGAAA
 GAGTTTGTGCTAAATGATGAGCTCCAGGACGCATCATCACTGGGAAAGTGTTCATCAGGCCAAGCATAA
 AAGAGGTAAGGAAAACCTCTGTCATATTAACAATACTTCAAAGGAAGAGCCTATTGACATCATTGTCTT
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 TCACTGTACAAGTATATCTTCCCTGCACATCTGCAAAAGCCAACCCTGGCCATTATTGGCCTCATCAAAC
 CCTTGGGCTCCATGATACCTACAGGAGAAACACAAGCTCGGTGGGCTGTTGAGTCTGAAAGGTGTTAA
 TAAGTTACCACCACCAAGTGTGATGATAGAGAAATTAATGCAAGGAAAGAAAACAAGCCAGTTGGTTT
 GGCTTGTGCTACTGCAAGGCTTTACAATCAGATTATATCACATACATAGATGAACTCCTGACCTATATCA
 ATGCAAAACCCAACTGTTCTCTATGCTCCTAACGGATCCACATCTGGCTCTGACCGTCTTCTTTGGCCC
 ATGCTCACCATAACAGTTCGGCTTACTGGCCAGGAAAATGGGAAGGAGCCAGAAATGCCATCATGACC
 CAGTGGGACCGAACATTCAAGGTCATCAAAGCTCGAGTTGTACAAGAGTCTCCATCTCCCTTTGAAAGTT
 TTCTTAAAGTCTTAGCTTTCTGGCTTTGCTTGTGGCTATTTTTCTGATTTTCTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238747 representing NM_001282693
 Red=Cloning site Green=Tags(s)

MAKRVAIVGAGVSGLASIKCCLEEGLEPTCFERSDDLGGWLRFTEHVEEGRASLYKSVVSNCKEMSCYS
 DFPPFEDYPNYVNSQFLEYLKYANHFDLLKHIQFKTKVCSVTKSDSAVSGQWEVVTMHEEKQESAIF
 DAVMVCTGFLTNPYLPDLSFPGINAFKQYFHSRQYKHPDIFKDKRVLVIGMNSGTDI AVEASHLAEKV
 FLSTTGGGWVISRIFDSGYPWDMVFMTRFQNMLRNSLPTPIVTWLMERKINNWLNHANYGLIPEDRTQLK
 EFVLNDELPGRIITGKVFIRPSI KEVKENSIVFNNTSKEEPIDIIVFATGYTFAFPFLDES VVKVEDGQA
 SLYKYIFPAHLQKPTLAIIGLIKPLGSMIPTGETQARWAVRVLKGVNKLPPPSVMIEEINARKENKPSWF
 GLCYCKALQSDYITYIDELLTYINAKPNLFSMLLTDPHLALT VFFGPCSPYQFRLTGPGKWEARNAIMT
 QWDRTFKVIKARVVQESPPFESFLKVFSLALLVAIFLIFL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8101_g09.zip

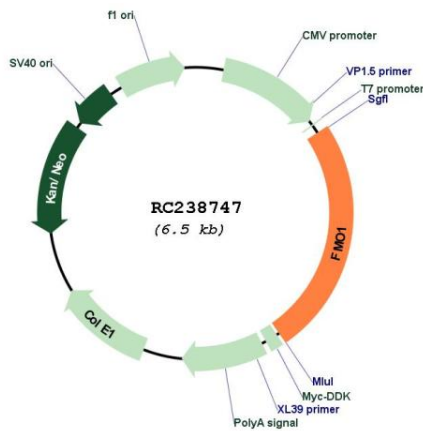
Restriction Sites:

Sgfl-Mlul

Cytogenetics: 1q24.3
Protein Families: Druggable Genome
Protein Pathways: Drug metabolism - cytochrome P450
MW: 60.3 kDa

Gene Summary: Metabolic N-oxidation of the diet-derived amino-trimethylamine (TMA) is mediated by flavin-containing monooxygenase and is subject to an inherited FMO3 polymorphism in man resulting in a small subpopulation with reduced TMA N-oxidation capacity resulting in fish odor syndrome Trimethylaminuria. Three forms of the enzyme, FMO1 found in fetal liver, FMO2 found in adult liver, and FMO3 are encoded by genes clustered in the 1q23-q25 region. Flavin-containing monooxygenases are NADPH-dependent flavoenzymes that catalyzes the oxidation of soft nucleophilic heteroatom centers in drugs, pesticides, and xenobiotics. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2013]

Product images:



Circular map for RC238747