

## Product datasheet for **SC119228**

### **FMO5 (NM\_001461) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	FMO5 (NM_001461) Human Untagged Clone
Tag:	Tag Free
Symbol:	FMO5
Synonyms:	hBVMO1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001461, the custom clone sequence may differ by one or more nucleotides

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ATGACTAAGAAAAGAATTGCTGTGATTGGGGGAGGAGTGAGCGGGCTCTCTCCATCAAGTCTGCGTAG
AAGAAGGCTTGGAACTGTCTGCTTTGAAAGGACTGATGACATCGGAGGGCTCTGGAGTTCAGGAAAA
TCCTGAAGAAGGAAGGGCCAGTATTACAAATCAGTGATCATCAATACTCTAAAGAGATGATGTGCTTC
AGTGACTATCCAATCCCAGATCATTATCCAACCTTCATGCATAATGCCAGGTCCTGGAGTATTTAGGA
TGTATGCCAAAGAATTTGACCTTCTAAAGTATATTCGATTTAAGACCACTGTGTGCACTGTGAAGAAGCA
GCCTGATTTTGCCACTTCAGGCCAATGGGAAGTGGTCACTGAATCTGAAGGGAAAAAGGAGATGAATGTC
TTTGATGGAGTCATGGTTTGCACTGGCCATCACACCAATGCTCATCTACCTCTGGAAAGCTTCCCTGGAA
TTGAGAAGTTCAAAGGGCAGTACTTCCACAGTCGAGACTATAAGAACCCAGAGGGATTCACTGGAAAGAG
AGTCATTATAATTGGCATTGGGAATTCTGGAGGGGATCTGGCTGTAGAGATTAGCCAAACAGCCAAGCAG
GTTTTCTCAGCACCAGGAGAGGGGCTTGGATCCTGAATCGTGTAGGGGACTACGGATATCTGCTGATG
TGTTGTTCTCTTCTCGACTTACACATTTTATATGGAAGATCTGTGGCCAATCATTAGCAAACAAATATTT
GGAAAAAAGATAAACCAAAGGTTTGACCATGAAATGTTTGGCCTGAAGCCTAAACACAGAGCTCTGAGT
CAGCATCCAACCTTAAATGATGACCTGCCAAATCGTATCATTTCTGGCTTGGTGAAGTGAAGGAAATG
TGAAGGAATTCACGGAGACAGCTGCCATATTTGAGGATGGCTCCAGGGAGGATGACATTGATGCTGTTAT
CTTTGCCACAGGCTATAGCTTTGACTTTCCATTCTGGAAGATTCGTCAAAAGTGGTCAAAAACAAGATA
TCCCTGTATAAAAAGGCTTCCCTCCTAACCTGGAAGGGCAACTCTTGAATCATAGGCTTGATTCAGC
CCTTAGGAGCCATTATGCCCATTCAGAGCTCCAAGGACGCTGGGCCACTCAGGTATTTAAAGGTCTAAA
GACATTGCCCTCACAGAGTGAAATGATGGCAGAAATATCTAAAGCTCAAGAGGAAATGACAAAAGGTAT
GTGGAGGCCAACGCCATACCATTCAAGGAGACTACATAGATACCATGGAAGAGCTTGCTGATTTGGTGG
GGGTCAAGCCCAATCTGCTGTCTCTGGCCTTCACTGACCCCAAGCTGGCATTACACTTATTACTGGGACC
CTGCACCTCCAATCCACTATCGTGTACAGGGCCCTGGAAGTGGGATGGGGCTCGAAAAGCTATCCTCACC
ACAGATGATCGCATCAGGAAGCCTCTGATGACAAGAGTAGTTGAAAGGAGTAGTTCTATGACTTCAACAA
TGACAATAGGCAAGTTTATGCTAGCTCTTGCTTCTTTGCTATAATTATAGCTTACTTCTAG
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_001461 unedited

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GCGAATTCGGCACGAGGTTGAGTCTCCTCCAGATCGCAGCTGAAGGATCTGTTGAGCGCT
TCAGGAAAGGCGGACAGGCGACACTAACAGGTGAAGATCTCGGGAGACCATGACTAAGAA
AAGAATTGCTGTGATTGGGGGAGGAGTGAGCGGGCTCTCTCCATCAAGTCTGCGTAGA
AGAAGGCTTGGAACTGTCTGCTTTGAAAGGACTGATGACATCGGAGGGCTCTGGAGGTT
CCAGGAAAATCCTGAAGAAGGAAGGGCCAGTATTACAAATCAGTGATCATCAATACTTC
TAAAGAGATGATGTGCTTCAGTGACTATCCAATCCCAGATCATTATCCCAACTTCATGCA
TAATGCCCAGGTCCTGGAGTATTTCAAGGATGTATGCCAAAGAATTTGACCTTCTAAAGTA
TATTCGATTTAAGACCACTGTGTGCAGTGTGAAGAAGCAGCCTGATTTTGCCACTTCAGG
CCAATGGGAAGTGGTCACTGAATCTGAAGGGAAAAAGGAGATGAATGTCTTTGATGGAGT
CATGGTTTGCACTGGCCATCACACCAATGCTCATCTACCTCTGGAAAGCTTCCCTGGAAT
TGAGAAGTTCAAAGGGCAGTACTTCCACAGTCGAGACTATAAGAACCCAGAGGGATTAC
TGGAAAGAGAGTCATTATAATTGGCATTGGGAATTCTGGAGGGGATCTGGCTGTAGAGAT
TANCCAAN
    
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**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Drug metabolism - cytochrome P450

**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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2009]  
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).