

Product datasheet for **SC205330**

FMO3 (NM_001002294) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	FMO3 (NM_001002294) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	FMO3
Synonyms:	dj127D3.1; FMOII; TMAU
ACCN:	NM_001002294
Insert Size:	407 bp
Insert Sequence:	>SC205330 3'UTR clone of NM_001002294 The sequence shown below is from the reference sequence of NM_001002294. The complete sequence of this clone may contain minor differences, such as SNPs. Blue =Stop Codon Red =Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC TTAATCGCTGTTTCCTTGTGTTGACCTAATCATCATTTTCTCTAGGATTTCTGAAAGTTACTGACAAT ACCCAGACAGGGCTTTGCTATTTAAAAATTTTACACACCTGCTTTTCTATTGAGCATCTT TTGCAGTACTCTGTAGACATTAGTCAGTAATACAGTGTTATTTCTAGGCTCTGAAATAGCCACTTTAAG AATCATGTCATGATCTTAAGAGAGCACTAATCATTCTGTTTGAGTTCCACTAACACTTCAAATCAGA ACTATGTTCTTTATCTAACTAAATCATTCTGAAACATTTTGACATGATTCCTTTTCTTTTAA ACAATGTATGAAAGATGATTTTAAATCTAAATAAAGAGCAAATTAAGCAGAATAATTATAA ACGCGT AAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA CGAGATTCGATTCCACCGCCCTTCTATGAAAGG
Restriction Sites:	SgfI-MluI
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	NM_001002294.3



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Summary:

Flavin-containing monooxygenases (FMO) are an important class of drug-metabolizing enzymes that catalyze the NADPH-dependent oxygenation of various nitrogen-, sulfur-, and phosphorous-containing xenobiotics such as therapeutic drugs, dietary compounds, pesticides, and other foreign compounds. The human FMO gene family is composed of 5 genes and multiple pseudogenes. FMO members have distinct developmental- and tissue-specific expression patterns. The expression of this FMO3 gene, the major FMO expressed in adult liver, can vary up to 20-fold between individuals. This inter-individual variation in FMO3 expression levels is likely to have significant effects on the rate at which xenobiotics are metabolised and, therefore, is of considerable interest to the pharmaceutical industry. This transmembrane protein localizes to the endoplasmic reticulum of many tissues. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. Mutations in this gene cause the disorder trimethylaminuria (TMAu) which is characterized by the accumulation and excretion of unmetabolized trimethylamine and a distinctive body odor. In healthy individuals, trimethylamine is primarily converted to the non odorous trimethylamine N-oxide.[provided by RefSeq, Jan 2016]

Locus ID:

2328

MW:

16.1