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Product datasheet for RC226537

FMO5 (NM_001144830) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FMO5 (NM_001144830) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FMO5
Synonyms:	hBVMO1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC226537 representing NM_001144830 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGACTAAGAAAAGAATTGCTGTGATTGGGGGAGGAGTGAGCGGGCTCTCTTCCATCAAGTGCTGCGTAG AAGAAGGCTTGGAACCTGTCTGCTTTGAAAGGACTGATGACATCGGAGGGCTCTGGAGGTTCCAGGAAAA TCCTGAAGAAGGAAGGGCCAGTATTTACAAATCAGTGATCATCAATACTTCTAAAGAGATGATGTGCTTC AGTGACTATCCAATCCCAGATCATTATCCCAACTTCATGCATAATGCCCAGGTCCTGGAGTATTTCAGGA TGTATGCCAAAGAATTTGACCTTCTAAAGTATATTCGATTTAAGACCACTGTGTGCAGTGTGAAGAAGCA GCCTGATTTTGCCACTTCAGGCCAATGGGAAGTGGTCACTGAATCTGAAGGGAAAAAGGAGATGAATGTC TTTGATGGAGTCATGGTTTGCACTGGCCATCACACCAATGCTCATCTACCTCTGGAAAGCTTCCCTGGAA TTGAGAAGTTCAAAGGGCAGTACTTCCACAGTCGAGACTATAAGAACCCAGAGGGATTCACTGGAAAGAG AGTCATTATAATTGGCATTGGGAATTCTGGAGGGGATCTGGCTGTAGAGATTAGCCAAACAGCCAAGCAG GTTTTCCTCAGCACCAGGAGAGGGGCTTGGATCCTGAATCGTGTAGGGGACTACGGATATCCTGCTGATG TGTTGTTCTCTTCTCGACTTACACATTTTATATGGAAGATCTGTGGCCAATCATTAGCAAACAAATATTT GGAAAAAAAGATAAACCAAAGGTTTGACCATGAAATGTTTGGCCTGAAGCCTAAACACAGGTCTAAAGAC ATTGCCCTCACAGAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

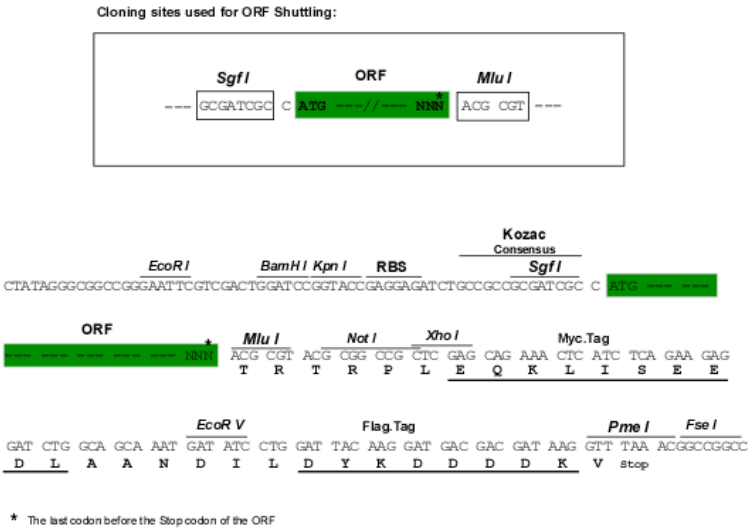
>RC226537 representing NM_001144830
Red=Cloning site Green=Tags(s)

MTKKRIAVIGGGVSGLSSIKCCVEEGLEPVCFERTDDIGGLWRFQENPEEGRASIYKSVIINTSKEMMCF
SDYPIPDHYPNFMHNAQVLEYFRMYAKEFDLLKYIRFKTTVCSVKKQPDFATSGQWEVVTESEGKKEMNV
FDGVMVCTGHHTNAHLPLESFPGIEKFKGQYFHSRDYKNPEGFTGKRVIIIGIGNSGGDLAVEISQTAKQ
VFLSTRRGAWILNRVGDYGYPADVLFSSRLTHFIWKICGQSLANKYLEKKINQRFDHEMFGLKPKHRSKD
IALTE

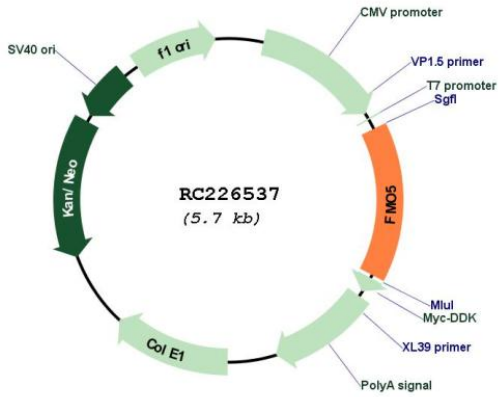
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001144830

ORF Size: 855 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_001144830.2
RefSeq ORF:	858 bp
Locus ID:	2330
UniProt ID:	P49326
Cytogenetics:	1q21.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Drug metabolism - cytochrome P450
MW:	32.3 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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2009]