

Product datasheet for **RG203237**

FMO2 (NM_001460) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FMO2 (NM_001460) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FMO2
Synonyms:	FMO1B1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG203237 representing NM_001460
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCAAAGAAGGTAGCTGTGATTGGAGCTGGGGTCAGTGGCCTAATTTCTCTGAAGTGTGTGGATG
 AGGGACTTGAGCCCACTTGCTTTGAGAGAACTGAAGATATTGGAGGAGTGTGGAGGTTCAAAGAGAATGT
 GGAAGATGGCCGAGCAAGTATCTATCAATCTGTGTTACCAACACCAGCAAAGAAATGCCTGTTTCAGT
 GACTTTCCAATGCCTGAAGATTTTCAAACCTCCTGCATAAATCTAAACTTCTGGAATATTTCAGGATTT
 TTGCTAAAAAATTTGATCTGCTAAAAATATTTCAAGTCCAGACAAGTGCCTTAGTGTGAGAAAAATGTC
 AGATTTCTCATCCTCTGGCCAATGGAAGGTTGCACTCAGAGCAACGGCAAGGAGCAGAGTGTGTCTTT
 GACGCAGTTATGGTTTGCAGTGGCCACCACATTCTACCTCATATCCCACTGAAGTCATTTCCAGGTATGG
 AGAGGTTCAAAGCCAATATTTCCATAGCCGCAATACAAGCATCCAGATGGATTTGAGGAAAAACGCAT
 CCTGGTATTGGAATGGGAACTCAGGCTCAGATATTGCTGTTGAGCTGAGTAAGATGCTGCTCAGGTT
 TTTATCAGCACAGGCATGGCACCTGGGTATGAGCCGTATCTCTGAAGATGGCTATCCTGGGACTCAG
 TGTTCCACACCCGGTTTCGTTCTATGCTCCGCAATGACTGCCACGAACAGCTGTAAAATGGATGATAGA
 ACAACAGATGAATCGGTGGTTCAACCATGAAAATTATGGCCTTGAGCCTCAAACAAAATACATTATGAAG
 GAACCTGTACTAAATGATGATGTCCAAGTCGCTACTCTGTGGAGCCATCAAGTGAAATCTACAGTGA
 AAGAGCTCACAGAACTTCTGCCATCTTTGAGGATGGAACAGTGGAGGAGAACATTGATGTCATCATTTT
 TGCAACAGGATATAGTTTCTCTTTCCCTTCTTGAAGATCACTCGTTAAAGTAGAGAATAATATGGTC
 TCACTGTATAAATACATATTTCCCGCTCACCTGGACAAGTCAACCCTCGCGTGCATTGGTCTCATCCAGC
 CCCTAGGTTCCATTTTCCAAGTCTGAACTTCAAGCTCGTTGGGTGACAAGATTTTCAAAGGCTTGTG
 TAGCCTGCCCTCAGAGAGAAGTATGATGATGGACATTATCAAAGGAATGAAAAAGAATTGACCTGTTT
 GGAGAAAGCCAGAGCCAGACGTTGCAGACCAATTATGTTGACTACTTGGACGAGCTCGCCTTAGAGATAG
 GTGCGAAGCCAGATTTCTGCTCTCTTGTTCAAAGATCCTAACTGGCTGTGAGACTCTATTTCCGACC
 CTGCAACTCTAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG203237 representing NM_001460
 Red=Cloning site Green=Tags(s)

MAKKVAVIGAGVSGLISLKCCVDEGLEPTCFERTEDIGGVWRFKENVEDGRASIYQSVVNTSKEMSCFS
 DFPMPEDFPNHLHNSKLLLEYFRIFAKKFDLLKYIQFQTTVLSVRKCPDFSSSGQWKVVTQSNKEQSAVF
 DAVMVCSGHHILPHIPLKSFPGMERFKGQYFHSRQYKHPDGFEGKRILVIGMGNSGSDIAVELSKNAAQV
 FISTRHGTWMSRISEDGYPWDSVFHTRFRSMLRNVLPRTAVKWMIQQMNRWFNHNENYGLPQNKYIMK
 EPVLNDDVPSRLLCGAIKVKSTVKELTETSAIFEDGTVEENIDVIFATGYSFSFPFLEDVSLVKVENNMV
 SLYKYIFPAHLKSTLACIGLIQPLGSIFPTAELQARWVTRVFKGLCSLPSERTMMMDIIRNEKRIDL
 GESQSQTLLQNTYVDYLDLALALEIGAKPDFCSLLFKDPKLAVRLYFGPCNSY

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001460

ORF Size: 1413 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_001460.3](#)

RefSeq Size: 5181 bp

RefSeq ORF: 1608 bp

Locus ID: 2327

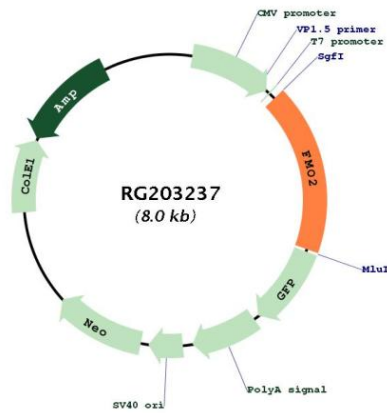
UniProt ID: [Q99518](#)

Cytogenetics: 1q24.3

Protein Pathways: Drug metabolism - cytochrome P450

Gene Summary: This gene encodes a flavin-containing monooxygenase family member. It is an NADPH-dependent enzyme that catalyzes the N-oxidation of some primary alkylamines through an N-hydroxylamine intermediate. However, some human populations contain an allele (FMO2*2A) with a premature stop codon, resulting in a protein that is C-terminally-truncated, has no catalytic activity, and is likely degraded rapidly. This gene is found in a cluster with other related family members on chromosome 1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2014]

Product images:



Circular map for RG203237