

Product datasheet for **RG237391**

FMO2 (NM_001301347) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FMO2 (NM_001301347) 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)
ORF Nucleotide Sequence:	>RG237391 representing NM_001301347. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
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CGCAATGTACTGCCACGAACAGCTGAAAATGGATGATAGAACAACAGATGAATCGGTGGTTCAACCAT
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GCTCACCTGGACAAGTCAACCCTCGCGTGCATTGGTCTCATCCAGCCCCTAGGTTCCATTTTCCCAACT
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CGCCTGGTTGGCCTGGGCAATGGGAAGGAGCCAGAAATGCCATCTTACCCAGAAACAAAGAATACTG
AAGCCACTCAAGACTCGGGCCCTGAAGGATTCATCTAATTTCTCAGTTTCTTTTCTGTTGAAAATCCTG
GGCCTTCTGCTGTTGTTGTGGCCTTTTTTGGCAACTTCAATGGTCC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237391
 Blue=ORF Red=Cloning site Green=Tag(s)

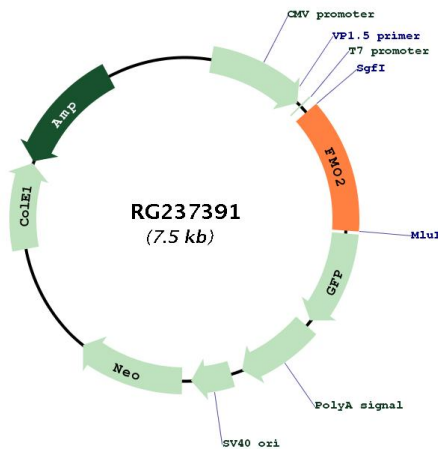
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 LQTNVYDYLDELALEIGAKPDFCSLLFKDPKLAVALRYFGPCNSYQYRLVGPQWEGARNAIFTQKQRIL
 KPLKTRALKDSSNFVSFLLKILGLLAVVVAFFCQLQWS
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
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 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001301347

ORF Size:	945 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).
RefSeq:	NM_001301347.2
RefSeq Size:	5023 bp
RefSeq ORF:	948 bp
Locus ID:	2327
Cytogenetics:	1q24.3
Protein Pathways:	Drug metabolism - cytochrome P450
MW:	36.7 kDa
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]