Product datasheet for **RC203237L3V**

**FMO2 (NM_001460) Human Tagged ORF Clone Lentiviral Particle**

**Product data:**

- **Product Type:** Lentiviral Particles
- **Product Name:** FMO2 (NM_001460) Human Tagged ORF Clone Lentiviral Particle
- **Symbol:** FMO2
- **Synonyms:** FMO1B1
- **Vector:** pLenti-C-Myc-DDK-P2A-Puro (PS100092)
- **ACCN:** NM_001460
- **ORF Size:** 1413 bp
- **ORF Nucleotide Sequence:** The ORF insert of this clone is exactly the same as (RC203237).

**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.

- **RefSeq:** NM_001460.2, NP_001451.1
- **RefSeq Size:** 5304 bp
- **RefSeq ORF:** 1608 bp
- **Locus ID:** 2327
- **Cytogenetics:** 1q24.3
- **Protein Pathways:** Drug metabolism - cytochrome P450
- **MW:** 53.6 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]