

## Product datasheet for **MR207907L4V**

### Cyp2e1 (NM\_021282) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | Cyp2e1 (NM_021282) Mouse Tagged ORF Clone Lentiviral Particle  |
| Symbol:                   | Cyp2e1   |
| Synonyms:                 | Cyp2e  |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-mGFP-P2A-Puro (PS100093)  |
| Tag:                      | mGFP   |
| ACCN:                     | NM_021282  |
| ORF Size:                 | 1479 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(MR207907).   |
| 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. <a href="#">More info</a> |
| 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:                   | <a href="#">NM_021282.2</a>  |
| RefSeq Size:              | 1759 bp  |
| RefSeq ORF:               | 1482 bp  |
| Locus ID:                 | 13106  |
| UniProt ID:               | <a href="#">Q05421</a>   |
| Cytogenetics:             | 7 85.94 cM   |



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**Gene Summary:**

A cytochrome P450 monooxygenase involved in the metabolism of fatty acids. Mechanistically, uses molecular oxygen inserting one oxygen atom into a substrate, and reducing the second into a water molecule, with two electrons provided by NADPH via cytochrome P450 reductase (NADPH--hemoprotein reductase). Catalyzes the hydroxylation of carbon-hydrogen bonds. Hydroxylates fatty acids specifically at the omega-1 position displaying the highest catalytic activity for saturated fatty acids. May be involved in the oxidative metabolism of xenobiotics.[UniProtKB/Swiss-Prot Function]