

## Product datasheet for **RC211377L3V**

### Cytochrome p450 2C19 (CYP2C19) (NM\_000769) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | Cytochrome p450 2C19 (CYP2C19) (NM_000769) Human Tagged ORF Clone Lentiviral Particle  |
| Symbol:                   | Cytochrome p450 2C19   |
| Synonyms:                 | CPCJ; CYP2C; CYPIIC17; CYPIIC19; P450C2C; P450IIC19  |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-Myc-DDK-P2A-Puro (PS100092)   |
| Tag:                      | Myc-DDK  |
| ACCN:                     | NM_000769  |
| ORF Size:                 | 1470 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC211377).   |
| 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_000769.1</a>  |
| RefSeq Size:              | 1473 bp  |
| RefSeq ORF:               | 1473 bp  |
| Locus ID:                 | 1557   |
| UniProt ID:               | <a href="#">P33261</a>   |
| Cytogenetics:             | 10q23.33   |
| Domains:                  | p450   |
| Protein Families:         | Druggable Genome   |



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**Protein Pathways:** Arachidonic acid metabolism, Drug metabolism - cytochrome P450, Linoleic acid metabolism, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Retinol metabolism

**MW:** 55.8 kDa

**Gene Summary:** This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum and is known to metabolize many xenobiotics, including the anticonvulsive drug mephenytoin, omeprazole, diazepam and some barbiturates. Polymorphism within this gene is associated with variable ability to metabolize mephenytoin, known as the poor metabolizer and extensive metabolizer phenotypes. The gene is located within a cluster of cytochrome P450 genes on chromosome 10q24. [provided by RefSeq, Jul 2008]