

## **Product datasheet for TL313595**

#### OriGene Technologies, Inc.

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### Cytochrome p450 2C19 (CYP2C19) Human shRNA Plasmid Kit (Locus ID 1557)

**Product data:** 

**Product Type:** shRNA Plasmids

**Product Name:** Cytochrome p450 2C19 (CYP2C19) Human shRNA Plasmid Kit (Locus ID 1557)

**Locus ID:** 1557

Synonyms: CPCJ; CYP2C; CYPIIC17; CYPIIC19; P450C2C; P450IIC19

Vector: pGFP-C-shLenti (TR30023)

E. coli Selection: Chloramphenicol (34 ug/ml)

**Mammalian Cell** 

Puromycin

Selection:

Format:

Lentiviral plasmids

Components: CYP2C19 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 1557).

5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.

RefSeq: NM 000769, NM 000769.1, NM 000769.2, BC111846, NM 000769.4

UniProt ID: P33261

**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]

shRNA Design: These shRNA constructs were designed against multiple splice variants at this gene locus. To

be certain that your variant of interest is targeted, please contact <u>techsupport@origene.com</u>. If you need a special design or shRNA sequence, please utilize our <u>custom shRNA service</u>.



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# Performance Guaranteed:

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).