

Product datasheet for KN204074RB

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CYP1B1 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control

Donor DNA: RFP-BSD Symbol: CYP1B1 Locus ID: 1545

Components: KN204074G1, CYP1B1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN204074G2, CYP1B1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN204074RBD, donor DNA containing left and right homologous arms and RFP-BSD

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

RefSeq: <u>NM 000104</u>

UniProt ID: Q16678

Synonyms: CP1B; CYPIB1; GLC3A; P4501B1

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. The enzyme

encoded by this gene localizes to the endoplasmic reticulum and metabolizes procarcinogens such as polycyclic aromatic hydrocarbons and 17beta-estradiol. Mutations in this gene have been associated with primary congenital glaucoma; therefore it is thought that the enzyme also metabolizes a signaling molecule involved in eye development, possibly a steroid.

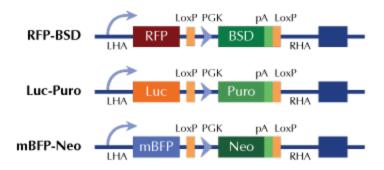
[provided by RefSeq, Jul 2008]





Product images:

Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter