

Product datasheet for **KN204074**

CYP1B1 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)
Format: 2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA: GFP-puro
Symbol: CYP1B1
Locus ID: 1545
Components: **KN204074G1**, CYP1B1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TTAGCGGCCAAGGGTCGTTC
KN204074G2, CYP1B1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCTGCTACTCCTGTCTCGGTGC
KN204074D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.

Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; Left arm sequence in blue; GFP-puro in green; Right arm in violet

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AGGCACCTT CTCCGTCCC ATCCCAATCC AAGCGCTCCT GGCCTGACG ACGCAAGAG ACTCGAGTGG
GAGTTAAAGC TTCCAGTGAG GGCAGCAGGT GTCCAGGCCG GGCCTGCGGG TTCCTGTTGA CGTCTTGCCC
TAGGCAAAGG TCCAGTTCC TTCTCGGAGC CGGCTGTCCC GCGCCACTGG AAACCGCACC TCCCCGAGG
TCAGTCTGTC TGCCGAGGCG CTGCCCCGGC ACCTCTTCAG ATGGATTATT ACAGGTAGCG GGTGGCGTGG
TAGGTACTTT AAAGGAAATC AAGCGCCACC GCCTCGATGC CCGCAGCGTT GTCCCCAGAT TGCAGGAACC
GTTACGCGCC TTGCGGGGAG GGGAAAGGTT TGGCGCTGGG TTACAGCGAG GTGGAACAC GCCCCTTCTC
TTCTCCAAGG GAGAGTGGT TGGGATGGG AAGGGGCGTC TTCGGCCATT TCTCCAGAGA GTCAGTCCG
ACCTCTCCAC CCAACGGCAC TCAGTCCCA GAGGCTGGG TAGGGCGTG GGGCGCCCG TCCTGTCTCT
GCACCCCTGA GTGTCACGCC TTCTCTCTC TGTCCCAGC TGGCCACTGT GCATGTGGGC CAGCGGCTGC
TGAGGCAACG GAGGCGGCAG CTCCGGTCCG CGCCCCGGG CCCGTTTGGC TGGCCACTGA TCGGAAACGC
GGCGGCGGTG GGCCAGGCGG CTCACCTCTC GTTCGCTCGC CTGGCGCGGC GCTACGCGCA CGTTTTCCAG
ATCCGCCTGG GCAGCTGCC CATAGTGGT CTGAATGGC AGCGGCCAT CCACCAGGC CTGGTGCAGC
AGGCTCGGC CTTGCGGAC CGGCCGGCT TCGCTCCTT CCGTGTGGT TCCGGCGGC GCAGCATGGC
TTTTCGCCAC TACTCGGAG ACTGGAAGG GCAGCGGCG GCAGCCACA GCATGATGC CAACTTCTTC
ACGCGCCAGC CGCGCAGCG CCAAGTCTC GAGGGCCAG TGCTGAGCG GCGCGCGAG CTGGTGGCGC
TGCTGGTGGC CGGCAGCGC GACGGCGCT TCCTCGACC GAGGCCGTG ACCGTGCTGG CCGTGGCCAA
CGTCATGAGT GCCGTGTGTT TCGGCTGCC CTACAGCCAC GACGACCCG AGTTCGTGA GCTGCTCAGC
CACACGAAG

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GE100003, scramble sequence in pCas-Guide vector



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Disclaimer: These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.

RefSeq: [NM_000104](#)

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:

