

Product datasheet for **KN205890RB**

Aromatase (CYP19A1) 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: Aromatase

Locus ID: 1588

Components: **KN205890G1**, Aromatase gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)
KN205890G2, Aromatase gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)
KN205890RBD, donor DNA containing left and right homologous arms and RFP-BSD functional cassette.
GE100003, scramble sequence in pCas-Guide vector

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_000103](#), [NM_031226](#), [NM_001347248](#), [NM_001347249](#), [NM_001347250](#), [NM_001347251](#), [NM_001347252](#), [NM_001347253](#), [NM_001347254](#), [NM_001347255](#), [NM_001347256](#)

UniProt ID: [P11511](#)

Synonyms: ARO; ARO1; CPV1; CYAR; CYP19; CYPXIX; P-450AROM

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 catalyzes the last steps of estrogen biosynthesis. Mutations in this gene can result in either increased or decreased aromatase activity; the associated phenotypes suggest that estrogen functions both as a sex steroid hormone and in growth or differentiation. Alternative promoter use and alternative splicing results in multiple transcript variants that have different tissue specificities. [provided by RefSeq, Dec 2016]



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Product images:

