

## Product datasheet for **KN205890**

### Aromatase (CYP19A1) 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:	Aromatase
Locus ID:	1588
Components:	<p><b>KN205890G1</b>, Aromatase gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CTGGTGATGTTATAATGTAT</p> <p><b>KN205890G2</b>, Aromatase gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GTGGCAGCAGGCATGGCTTC</p> <p><b>KN205890D</b>, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p>

#### 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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AGAAGTAAGT TGGCCGAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
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 TACAGGCATC GTGGTGTAC GCTCGTCGTT TGGTATGGCT TCATTCAGCT CCGGTTCCCA ACGATC

**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]

Product images:

