

Product datasheet for **KN211996**

PAX2 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:	PAX2
Locus ID:	5076
Components:	<p>KN211996G1, PAX2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CGCGCCGCGAGGCGAGGACTA</p> <p>KN211996G2, PAX2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CAGAGACCCGTCCGCGCCGC</p> <p>KN211996D, 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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TGGGGGATCA TGTAACCTCGC CTT

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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_000278](#), [NM_001304569](#), [NM_003987](#), [NM_003988](#), [NM_003989](#), [NM_003990](#)

UniProt ID:

[Q02962](#)

Synonyms:

FSGS7; PAPRS

Summary:

PAX2 encodes paired box gene 2, one of many human homologues of the Drosophila melanogaster gene prd. The central feature of this transcription factor gene family is the conserved DNA-binding paired box domain. PAX2 is believed to be a target of transcriptional suppression by the tumor suppressor gene WT1. Mutations within PAX2 have been shown to result in optic nerve colobomas and renal hypoplasia. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Dec 2014]

Product images:

