

## Product datasheet for **KN211629RB**

### APC 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:** APC

**Locus ID:** 324

**Components:** **KN211629G1**, APC gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)  
**KN211629G2**, APC gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)  
**KN211629RBD**, 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\\_000038](#), [NM\\_001127510](#), [NM\\_001127511](#), [NM\\_001354895](#), [NM\\_001354896](#),  
[NM\\_001354897](#), [NM\\_001354898](#), [NM\\_001354899](#), [NM\\_001354900](#), [NM\\_001354901](#),  
[NM\\_001354902](#), [NM\\_001354903](#), [NM\\_001354904](#), [NM\\_001354905](#), [NM\\_001354906](#)

**UniProt ID:** [P25054](#)

**Synonyms:** BTPS2; DP2; DP2.5; DP3; GS; PPP1R46

**Summary:** This gene encodes a tumor suppressor protein that acts as an antagonist of the Wnt signaling pathway. It is also involved in other processes including cell migration and adhesion, transcriptional activation, and apoptosis. Defects in this gene cause familial adenomatous polyposis (FAP), an autosomal dominant pre-malignant disease that usually progresses to malignancy. Mutations in the APC gene have been found to occur in most colorectal cancers. Disease-associated mutations tend to be clustered in a small region designated the mutation cluster region (MCR) and result in a truncated protein product. [provided by RefSeq, Dec 2019]



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## Product images:

