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Product datasheet for KN214047

PIK3CD 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: PIK3CD

Locus ID: 5293

Components: **KN214047G1**, PIK3CD gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCTTGGTCCAGAATTCCATG
KN214047G2, PIK3CD gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GAAGTTCAGGTAGACCCCTG
KN214047D, 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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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.

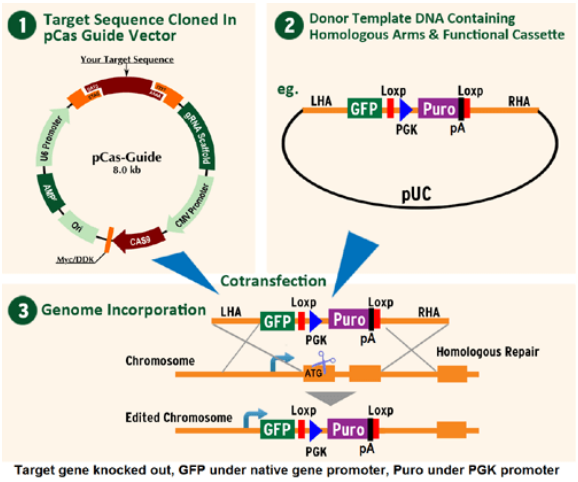
RefSeq: NM_005026, NM_001350234, NM_001350235

UniProt ID: O00329

Synonyms: APDS; IMD14; p110D; P110DELTA; PI3K

Summary: Phosphoinositide 3-kinases (PI3Ks) phosphorylate inositol lipids and are involved in the immune response. The protein encoded by this gene is a class I PI3K found primarily in leukocytes. Like other class I PI3Ks (p110-alpha p110-beta, and p110-gamma), the encoded protein binds p85 adapter proteins and GTP-bound RAS. However, unlike the other class I PI3Ks, this protein phosphorylates itself, not p85 protein.[provided by RefSeq, Jul 2010]

Product images:



Target gene knocked out, GFP under native gene promoter, Puro under PGK promoter