

Product datasheet for KN209840RB

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p57 Kip2 (CDKN1C) 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: p57 Kip2 Locus ID: 1028

Components: KN209840G1, p57 Kip2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN209840G2, p57 Kip2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN209840RBD**, 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 000076, NM 001122630, NM 001122631, NM 001362474, NM 001362475

UniProt ID: <u>P49918</u>

Synonyms: BWCR; BWS; KIP2; p57; p57Kip2; WBS

Summary: This gene is imprinted, with preferential expression of the maternal allele. The encoded

protein is a tight-binding, strong inhibitor of several G1 cyclin/Cdk complexes and a negative regulator of cell proliferation. Mutations in this gene are implicated in sporadic cancers and Beckwith-Wiedemann syndorome, suggesting that this gene is a tumor suppressor candidate. Three transcript variants encoding two different isoforms have been found for this gene.

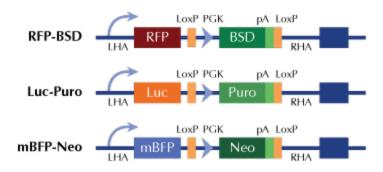
[provided by RefSeq, Oct 2010]





Product images:

Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter