

## **Product datasheet for KN218822BN**

### OriGene Technologies, Inc.

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## Desmoplakin (DSP) Human Gene Knockout Kit (CRISPR)

**Product data:** 

**Product Type:** Knockout Kits (CRISPR)

**Format:** 2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control

Donor DNA: mBFP-Neo Symbol: Desmoplakin

**Locus ID:** 1832

**Components: KN218822G1**, Desmoplakin gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

**KN218822G2**, Desmoplakin gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN218822BND**, donor DNA containing left and right homologous arms and mBFP-Neo

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: <u>NM 001008844</u>, <u>NM 001319034</u>, <u>NM 004415</u>

UniProt ID: <u>P15924</u>

Synonyms: DCWHKTA; DP; DPI; DPII

**Summary:** This gene encodes a protein that anchors intermediate filaments to desmosomal plaques

and forms an obligate component of functional desmosomes. Mutations in this gene are the cause of several cardiomyopathies and keratodermas, including skin fragility-woolly hair syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan

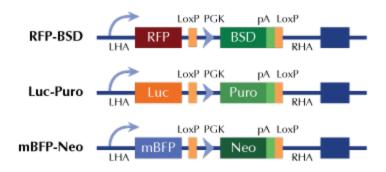
2016]





# **Product images:**

### Donor Vector Edited Chromosome



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