

Product datasheet for KN210211BN

OriGene Technologies, Inc.

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12 Lipoxygenase (ALOX12) 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: 12 Lipoxygenase

Locus ID: 239

Components: KN210211G1, 12 Lipoxygenase gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN210211G2, 12 Lipoxygenase gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN210211BND**, 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 000697</u>

UniProt ID: P18054

Synonyms: 12-LOX; 12S-LOX; LOG12

Summary: This gene encodes a member of the lipoxygenase family of proteins. The encoded enzyme

acts on different polyunsaturated fatty acid substrates to generate bioactive lipid mediators including eicosanoids and lipoxins. The encoded enzyme and its reaction products have been shown to regulate platelet function. Elevated expression of this gene has been observed in pancreatic islets derived from human diabetes patients. Allelic variants in this gene may be associated with susceptibility to toxoplasmosis. Multiple pseudogenes of this gene have been

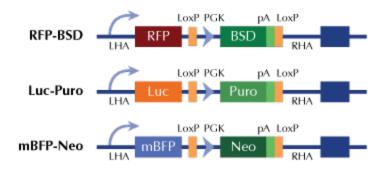
identified in the human genome. [provided by RefSeq, Aug 2017]





Product images:

Donor Vector Edited Chromosome



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