

Product datasheet for KN212443BN

OriGene Technologies, Inc.

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Collagen V (COL5A1) 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: Collagen V

Locus ID: 1289

Components: KN212443G1, Collagen V gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN212443G2, Collagen V gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN212443BND, donor DNA containing left and right homologous arms and mBFP-Neo

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

RefSeq: <u>NM 000093</u>, <u>NM 001278074</u>

UniProt ID: P20908

Synonyms: alpha 1 type V collagen; collagen, type V, alpha 1; OTTHUMP00000022513;

OTTHUMP00000064637

Summary: This gene encodes an alpha chain for one of the low abundance fibrillar collagens. Fibrillar

collagen molecules are trimers that can be composed of one or more types of alpha chains. Type V collagen is found in tissues containing type I collagen and appears to regulate the assembly of heterotypic fibers composed of both type I and type V collagen. This gene product is closely related to type XI collagen and it is possible that the collagen chains of types V and XI constitute a single collagen type with tissue-specific chain combinations. The encoded procollagen protein occurs commonly as the heterotrimer pro-alpha1(V)-pro-alpha1(V)-pro-alpha2(V). Mutations in this gene are associated with Ehlers-Danlos syndrome,

types I and II. Alternative splicing of this gene results in multiple transcript variants. [provided

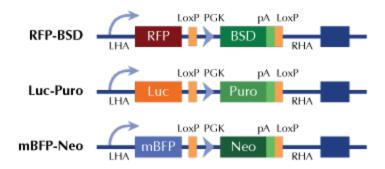
by RefSeq, May 2013]





Product images:

Donor Vector Edited Chromosome



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