

## Product datasheet for **KN212443BN**

### 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:	<b>KN212443G1</b> , Collagen V gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) <b>KN212443G2</b> , Collagen V gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) <b>KN212443BND</b> , donor DNA containing left and right homologous arms and mBFP-Neo functional cassette. <b>GE100003</b> , scramble sequence in pCas-Guide vector
RefSeq:	<a href="#">NM_000093</a> , <a href="#">NM_001278074</a>
UniProt ID:	<a href="#">P20908</a>
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]



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## Product images:

