

## Product datasheet for **KN212443RB**

### Collagen V (COL5A1) 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:	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>KN212443RBD</b> , donor DNA containing left and right homologous arms and RFP-BSD functional cassette. <b>GE100003</b> , 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:	<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:

