

## Product datasheet for **KN200715**

### Biglycan (BGN) Human Gene Knockout Kit (CRISPR)

#### Product data:

**Product Type:** Knockout Kits (CRISPR)  
**Format:** 2 gRNA vectors, 1 GFP-puro donor, 1 scramble control  
**Donor DNA:** GFP-puro  
**Symbol:** Biglycan  
**Locus ID:** 633  
**Components:** **KN200715G1**, Biglycan gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TGGGACTTCACCCTGGACGA  
**KN200715G2**, Biglycan gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CAGAGACACGAGGCGCCACA  
**KN200715D**, donor DNA containing left and right homologous arms and GFP-puro functional cassette.

Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **GFP-puro in green**; **Right arm in violet**

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**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:**

[NM\\_001711](#)

**UniProt ID:**

[P21810](#)

**Synonyms:**

DSPG1; PG-S1; PGI; SLRR1A

**Summary:**

This gene encodes a member of the small leucine-rich proteoglycan (SLRP) family of proteins. The encoded preproprotein is proteolytically processed to generate the mature protein, which plays a role in bone growth, muscle development and regeneration, and collagen fibril assembly in multiple tissues. This protein may also regulate inflammation and innate immunity. Additionally, the encoded protein may contribute to atherosclerosis and aortic valve stenosis in human patients. This gene and the related gene decorin are thought to be the result of a gene duplication. [provided by RefSeq, Nov 2015]

Product images:

