

Product datasheet for KN200715BN

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Biglycan (BGN) 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: Biglycan

Locus ID: 633

Components: KN200715G1, Biglycan gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN200715G2, Biglycan gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN200715BND, 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 001711</u>

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

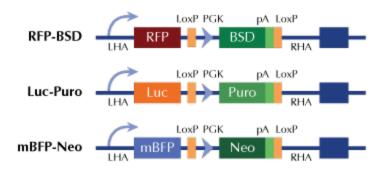
the result of a gene duplication. [provided by RefSeq, Nov 2015]





Product images:

Donor Vector Edited Chromosome



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