

Product datasheet for KN200226BN

OriGene Technologies, Inc.

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Transglutaminase 2 (TGM2) 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: Transglutaminase 2

Locus ID: 7052

Components: KN200226G1, Transglutaminase 2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN200226G2, Transglutaminase 2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN200226BND**, 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: NM 004613, NM 198951, NM 001323316, NM 001323317, NM 001323318

UniProt ID: P21980

Synonyms: G-ALPHA-h; GNAH; HEL-S-45; TG2; TGC

Summary: Transglutaminases are enzymes that catalyze the crosslinking of proteins by epsilon-gamma

glutamyl lysine isopeptide bonds. While the primary structure of transglutaminases is not conserved, they all have the same amino acid sequence at their active sites and their activity is calcium-dependent. The protein encoded by this gene acts as a monomer, is induced by retinoic acid, and appears to be involved in apoptosis. Finally, the encoded protein is the autoantigen implicated in celiac disease. Two transcript variants encoding different isoforms

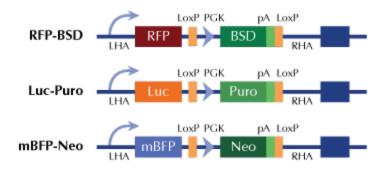
have been found for this gene. [provided by RefSeq, Jul 2008]





Product images:

Donor Vector Edited Chromosome



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