

Product datasheet for KN213341BN

GPD2 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

GPD2 Symbol: 2820 Locus ID:

KN213341G1, GPD2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN213341G2, GPD2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN213341BND, 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 000408, NM 001083112

UniProt ID: P43304

Synonyms: GDH2; GPDM; mGPDH

Summary: The protein encoded by this gene localizes to the inner mitochondrial membrane and

> catalyzes the conversion of glycerol-3-phosphate to dihydroxyacetone phosphate, using FAD as a cofactor. Along with GDP1, the encoded protein constitutes the glycerol phosphate shuttle, which reoxidizes NADH formed during glycolysis. Two transcript variants encoding

the same protein have been found for this gene.[provided by RefSeq, Jan 2010]



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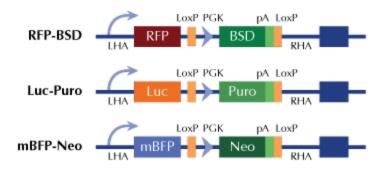
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Product images:

Donor Vector Edited Chromosome



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