

Product datasheet for KN202117LP

OriGene Technologies, Inc.

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S100A3 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control

Donor DNA: Luciferase-Puro

 Symbol:
 \$100A3

 Locus ID:
 6274

Components: KN202117G1, S100A3 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN202117G2, S100A3 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN202117LPD, donor DNA containing left and right homologous arms and Luciferase-Puro

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 002960</u>

 UniProt ID:
 P33764

 Synonyms:
 \$100E

Summary: The protein encoded by this gene is a member of the S100 family of proteins containing 2 EF-

hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. This protein has the highest content of cysteines of all S100 proteins, has a high affinity for Zinc, and is highly expressed in human hair cuticle.

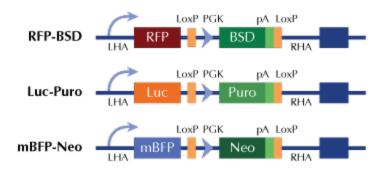
The precise function of this protein is unknown. [provided by RefSeq, Jul 2008]





Product images:

Donor Vector Edited Chromosome



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