

Product datasheet for KN202187LP

OriGene Technologies, Inc.

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DLX4 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: DLX4 Locus ID: 1748

Components: KN202187G1, DLX4 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN202187G2, DLX4 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN202187LPD, 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 001934</u>, <u>NM 138281</u>

UniProt ID: Q92988

Synonyms: BP1; DLX7; DLX8; DLX9; OFC15

Summary: Many vertebrate homeo box-containing genes have been identified on the basis of their

sequence similarity with Drosophila developmental genes. Members of the Dlx gene family contain a homeobox that is related to that of Distal-less (Dll), a gene expressed in the head and limbs of the developing fruit fly. The Distal-less (Dlx) family of genes comprises at least 6 different members, DLX1-DLX6. The DLX proteins are postulated to play a role in forebrain and craniofacial development. Three transcript variants have been described for this gene, however, the full length nature of one variant has not been described. Studies of the two splice variants revealed that one encoded isoform functions as a repressor of the beta-globin

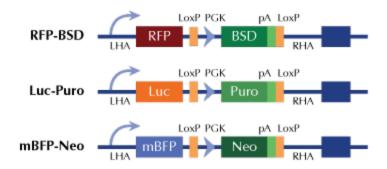
gene while the other isoform lacks that function. [provided by RefSeq, Jul 2008]





Product images:

Donor Vector Edited Chromosome



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