

Product datasheet for KN204895LP

OriGene Technologies, Inc.

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p15 INK4b (CDKN2B) 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: p15 INK4b

Locus ID: 1030

Components: KN204895G1, p15 INK4b gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN204895G2, p15 INK4b gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN204895LPD, 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.

RefSeg: NM 004936, NM 078487

UniProt ID: P42772

Synonyms: CDK4I; INK4B; MTS2; P15; p15INK4b; TP15

Summary: This gene lies adjacent to the tumor suppressor gene CDKN2A in a region that is frequently

mutated and deleted in a wide variety of tumors. This gene encodes a cyclin-dependent kinase inhibitor, which forms a complex with CDK4 or CDK6, and prevents the activation of the CDK kinases, thus the encoded protein functions as a cell growth regulator that controls cell cycle G1 progression. The expression of this gene was found to be dramatically induced by TGF beta, which suggested its role in the TGF beta induced growth inhibition. Two

alternatively spliced transcript variants of this gene, which encode distinct proteins, have

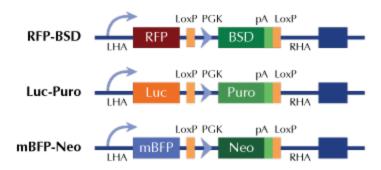
been reported. [provided by RefSeq, Jul 2008]





Product images:

Donor Vector Edited Chromosome



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