

Product datasheet for KN204895BN

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

p15 INK4b (CDKN2B) 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: 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)

KN204895BND, donor DNA containing left and right homologous arms and mBFP-Neo

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

RefSeq: <u>NM 004936</u>, <u>NM 078487</u>

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 TCF beta which suggested its relain the TCF beta induced growth inhibition. Two

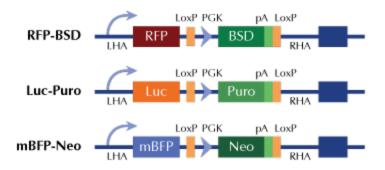
by TGF beta, which suggested its role in the TGF beta induced growth inhibition. Two alternatively spliced transcript variants of this gene, which encode distinct proteins, have

been reported. [provided by RefSeq, Jul 2008]



Product images:

Donor Vector Edited Chromosome



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