

Product datasheet for KN201611RB

c-Myc (MYC) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control

Donor DNA: RFP-BSE
Symbol: c-Myc
Locus ID: 4609

Components: KN201611G1, c-Myc gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN201611G2, c-Myc gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN201611RBD, donor DNA containing left and right homologous arms and RFP-BSD

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

RefSeq: <u>NM 002467</u>, <u>NM 001354870</u>

UniProt ID: P01106

Synonyms: bHLHe39; c-Myc; MRTL; MYCC

Summary: This gene is a proto-oncogene and encodes a nuclear phosphoprotein that plays a role in cell

cycle progression, apoptosis and cellular transformation. The encoded protein forms a heterodimer with the related transcription factor MAX. This complex binds to the E box DNA consensus sequence and regulates the transcription of specific target genes. Amplification of this gene is frequently observed in numerous human cancers. Translocations involving this gene are associated with Burkitt lymphoma and multiple myeloma in human patients. There is evidence to show that translation initiates both from an upstream, in-frame non-AUG (CUG) and a downstream AUG start site, resulting in the production of two isoforms with distinct N-

termini. [provided by RefSeq, Aug 2017]



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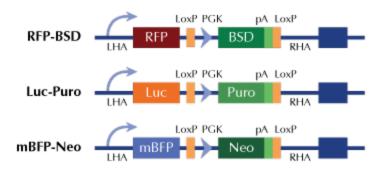
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Product images:

Donor Vector Edited Chromosome



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