

# Product datasheet for KN200700LP

## OriGene Technologies, Inc.

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## PML Protein (PML) 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: PML Protein

Locus ID: 5371

**Components: KN200700G1**, PML Protein gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

**KN200700G2**, PML Protein gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN200700LPD, donor DNA containing left and right homologous arms and Luciferase-Puro

functional cassette.

**GE100003**, scramble sequence in pCas-Guide vector

RefSeq: NM 002675, NM 033238, NM 033239, NM 033240, NM 033242, NM 033244, NM 033245,

NM 033246, NM 033247, NM 033249, NM 033250

UniProt ID: P29590

**Synonyms:** MYL; PP8675; RNF71; TRIM19

**Summary:** The protein encoded by this gene is a member of the tripartite motif (TRIM) family. The TRIM

motif includes three zinc-binding domains, a RING, a B-box type 1 and a B-box type 2, and a coiled-coil region. This phosphoprotein localizes to nuclear bodies where it functions as a transcription factor and tumor suppressor. Its expression is cell-cycle related and it regulates the p53 response to oncogenic signals. The gene is often involved in the translocation with the retinoic acid receptor alpha gene associated with acute promyelocytic leukemia (APL). Extensive alternative splicing of this gene results in several variations of the protein's central and C-terminal regions; all variants encode the same N-terminus. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul

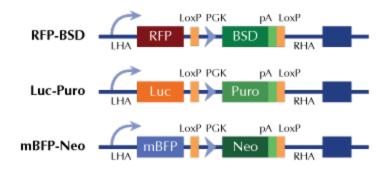
2008]





# **Product images:**

## Donor Vector Edited Chromosome



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