

Product datasheet for KN208247LP

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E2F1 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: E2F1 Locus ID: 1869

Components: KN208247G1, E2F1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN208247G2, E2F1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN208247LPD, 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:
 NM 005225

 UniProt ID:
 Q01094

Synonyms: E2F-1; RBAP1; RBBP3; RBP3

Summary: The protein encoded by this gene is a member of the E2F family of transcription factors. The

E2F family plays a crucial role in the control of cell cycle and action of tumor suppressor proteins and is also a target of the transforming proteins of small DNA tumor viruses. The E2F proteins contain several evolutionally conserved domains found in most members of the

family. These domains include a DNA binding domain, a dimerization domain which

determines interaction with the differentiation regulated transcription factor proteins (DP), a transactivation domain enriched in acidic amino acids, and a tumor suppressor protein association domain which is embedded within the transactivation domain. This protein and another 2 members, E2F2 and E2F3, have an additional cyclin binding domain. This protein binds preferentially to retinoblastoma protein pRB in a cell-cycle dependent manner. It can mediate both cell proliferation and p53-dependent/independent apoptosis. [provided by

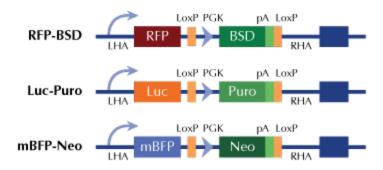
RefSeq, Jul 20081





Product images:

Donor Vector Edited Chromosome



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