

## Product datasheet for KN218988BN

#### OriGene Technologies, Inc.

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### **GRIM19 (NDUFA13) 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: GRIM19
Locus ID: 51079

**Components: KN218988G1**, GRIM19 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

**KN218988G2**, GRIM19 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN218988BND, donor DNA containing left and right homologous arms and mBFP-Neo

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:** <u>NM 015965</u>

UniProt ID: Q9P0J0

**Synonyms:** B16.6; CDA016; CGI-39; GRIM-19; GRIM19

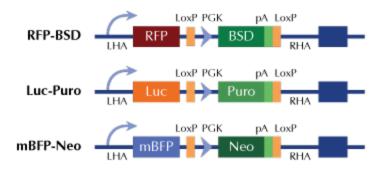
**Summary:** This gene encodes a subunit of the mitochondrial membrane respiratory chain NADH

dehydrogenase (Complex I), which functions in the transfer of electrons from NADH to the respiratory chain. The protein is required for complex I assembly and electron transfer activity. The protein binds the signal transducers and activators of transcription 3 (STAT3) transcription factor, and can function as a tumor suppressor. The human protein purified from mitochondria migrates at approximately 16 kDa. Transcripts originating from an upstream promoter and capable of expressing a protein with a longer N-terminus have been found, but their biological validity has not been determined. [provided by RefSeq, Oct 2009]



# **Product images:**

#### Donor Vector Edited Chromosome



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