

# Product datasheet for KN208239LP

## OriGene Technologies, Inc.

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## **GFM1 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: GFM1 Locus ID: 85476

**Components:** KN208239G1, GFM1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN208239G2, GFM1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN208239LPD, 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:** <u>NM 001308164, NM 001308166, NM 024996</u>

UniProt ID: Q96RP9

**Synonyms:** COXPD1; EFG; EFG1; EFGM; EGF1; GFM; hEFG1

**Summary:** Eukaryotes contain two protein translational systems, one in the cytoplasm and one in the

mitochondria. Mitochondrial translation is crucial for maintaining mitochondrial function and

mutations in this system lead to a breakdown in the respiratory chain-oxidative

phosphorylation system and to impaired maintenance of mitochondrial DNA. This gene encodes one of the mitochondrial translation elongation factors. Its role in the regulation of normal mitochondrial function and in different disease states attributed to mitochondrial

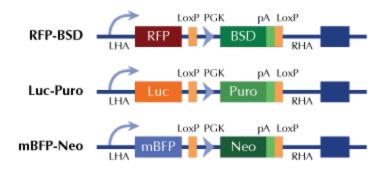
dysfunction is not known. [provided by RefSeq, Jul 2008]





# **Product images:**

### Donor Vector Edited Chromosome



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