

## Product datasheet for KN214709BN

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## **CLN5 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: CLN5 Locus ID: 1203

**Components: KN214709G1**, CLN5 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

**KN214709G2**, CLN5 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN214709BND, 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 006493</u>, <u>NM 001366624</u>

UniProt ID: <u>075503</u>
Synonyms: NCL

**Summary:** This gene is one of eight which have been associated with neuronal ceroid lipofuscinoses

(NCL). Also referred to as Batten disease, NCL comprises a class of autosomal recessive, neurodegenerative disorders affecting children. The genes responsible likely encode proteins involved in the degradation of post-translationally modified proteins in lysosomes. The primary defect in NCL disorders is thought to be associated with lysosomal storage function.

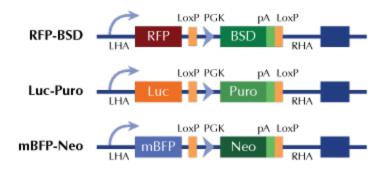
[provided by RefSeq, Oct 2008]





# **Product images:**

### Donor Vector Edited Chromosome



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