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Product datasheet for KN214709

CLN5 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 GFP-puro donor, 1 scramble control

Donor DNA: GFP-puro

Symbol: CLN5

Locus ID: 1203

Components: **KN214709G1**, CLN5 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TGCGCCGGAACCTGCGCTTG
KN214709G2, CLN5 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCTCTGGAGCTGACGCGCAG
KN214709D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.
Homologous arm and GFP-puro sequences:
pUC vector backbone in gray; Left arm sequence in blue; GFP-puro in green; Right arm in violet

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TGGGGGATCA TGTAACTCGC CTT

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.

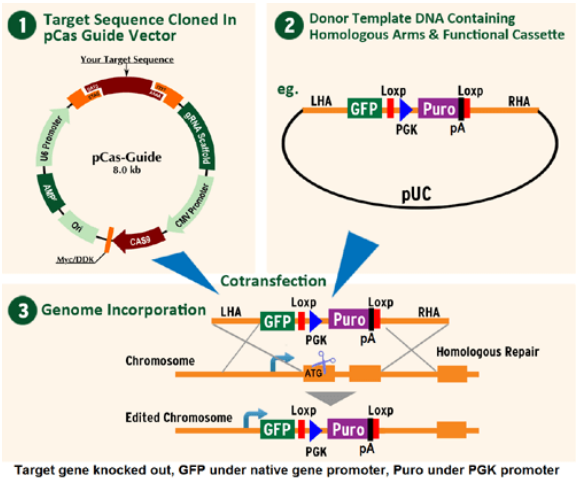
RefSeq: NM_006493, NM_001366624

UniProt ID: O75503

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:



Target gene knocked out, GFP under native gene promoter, Puro under PGK promoter