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Product datasheet for KN209830

LOXL1 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: LOXL1

Locus ID: 4016

Components: **KN209830G1**, LOXL1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TGCCTGTGCGTGCTGGTGCA
KN209830G2, LOXL1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: ACACCAGGGCCCCCAGCTGC
KN209830D, 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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GGGGGATCAT GTAACTCGCC TT

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.

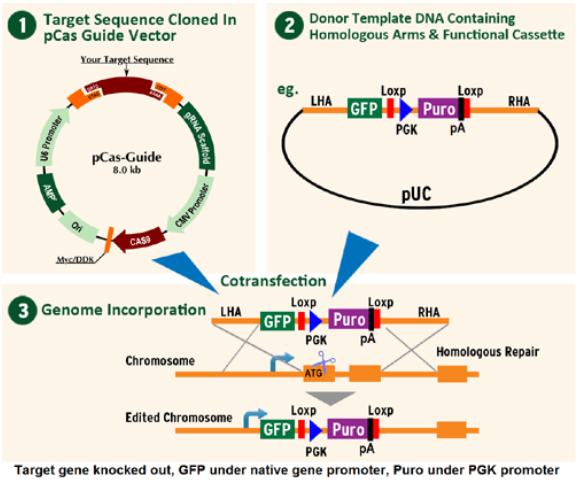
RefSeq: NM_005576

UniProt ID: Q08397

Synonyms: LOL; LOXL

Summary: This gene encodes a member of the lysyl oxidase family of proteins. The prototypic member of the family is essential to the biogenesis of connective tissue, encoding an extracellular copper-dependent amine oxidase that catalyzes the first step in the formation of crosslinks in collagen and elastin. The encoded preproprotein is proteolytically processed to generate the mature enzyme. A highly conserved amino acid sequence at the C-terminus end appears to be sufficient for amine oxidase activity, suggesting that each family member may retain this function. The N-terminus is poorly conserved and may impart additional roles in developmental regulation, senescence, tumor suppression, cell growth control, and chemotaxis to each member of the family. Mutations in this gene are associated with exfoliation syndrome. [provided by RefSeq, Jan 2016]

Product images:



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