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Product datasheet for KN309375

Lox Mouse 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: Lox

Locus ID: 16948

Components: **KN309375G1**, Lox gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GTTCAGTCTGCTGAGCCTCG
KN309375G2, Lox gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: ACAATCCAATGGGAGAACAA
KN309375D, 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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CAGCTCCGGT TCCCAACGAT C

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.

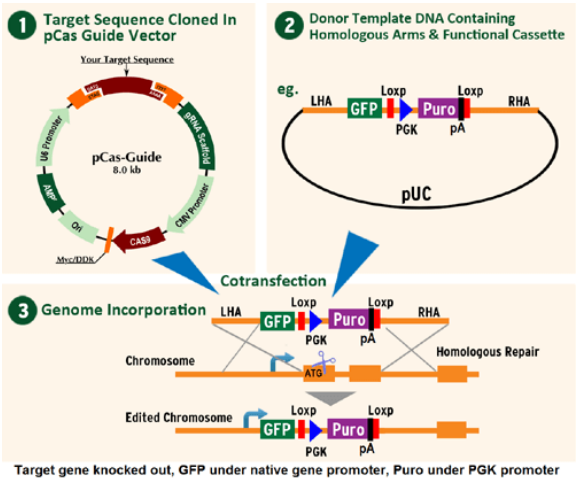
RefSeq: NM_001286181, NM_001286182, NM_010728

UniProt ID: P28301

Synonyms: AI893619; rrg; TSC-160

Summary: This gene encodes a precursor protein that belongs to the lysyl oxidase family of proteins. The secreted proprotein is proteolytically processed to an active mature peptide and a propeptide. This propeptide is thought to function in tumor suppression by inhibiting the Ras signaling pathway. The active enzyme plays a role in cross-linking of collagen and elastin and is essential for development of cardiovascular and respiratory systems, and development of skin and connective tissue. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2013]

Product images:



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