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Product datasheet for KN209570

Cytokeratin 8 (KRT8) 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: Cytokeratin 8

Locus ID: 3856

Components: **KN209570G1**, Cytokeratin 8 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AACAGGTGCAGGTGACAAGG
KN209570G2, Cytokeratin 8 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TGGAGCCAGGACCTGCAGGA
KN209570D, 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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TACAGGCATC GTGGTGTCAC GCTCGTCGTT TGGTATGGCT TCATTCAGCT CCGGTTCCCA ACGATC

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.

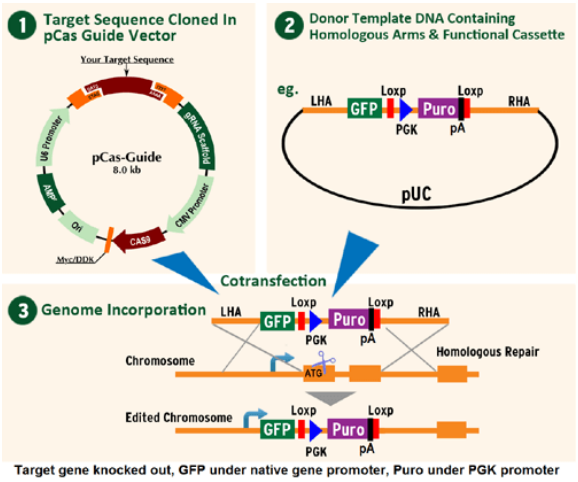
RefSeq: NM_001256282, NM_001256293, NM_002273, NR_045962

UniProt ID: P05787

Synonyms: CARD2; CK-8; CK8; CYK8; K2C8; K8; KO

Summary: This gene is a member of the type II keratin family clustered on the long arm of chromosome 12. Type I and type II keratins heteropolymerize to form intermediate-sized filaments in the cytoplasm of epithelial cells. The product of this gene typically dimerizes with keratin 18 to form an intermediate filament in simple single-layered epithelial cells. This protein plays a role in maintaining cellular structural integrity and also functions in signal transduction and cellular differentiation. Mutations in this gene cause cryptogenic cirrhosis. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2012]

Product images:



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