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Product datasheet for KN206468

Occludin (OCLN) 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: Occludin

Locus ID: 100506658

Components: **KN206468G1**, Occludin gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TACAATTCATCAGGCCTGTA
KN206468G2, Occludin gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TAAGGAGGTGGACTTTCAAG
KN206468D, 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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CACGCTCGTC GTTTGGTATG GCTTCATTCA GCTCCGGTTC CCAACGATC

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.

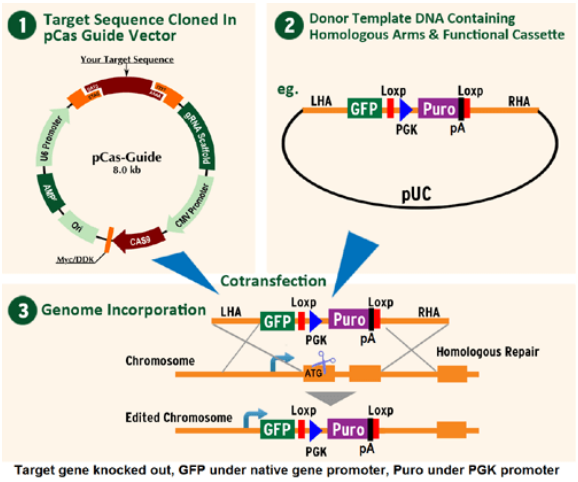
RefSeq: NM_001205254, NM_001205255, NM_002538

UniProt ID: Q16625

Synonyms: BLCPMG; PPP1R115

Summary: This gene encodes an integral membrane protein that is required for cytokine-induced regulation of the tight junction paracellular permeability barrier. Mutations in this gene are thought to be a cause of band-like calcification with simplified gyration and polymicrogyria (BLC-PMG), an autosomal recessive neurologic disorder that is also known as pseudo-TORCH syndrome. Alternative splicing results in multiple transcript variants. A related pseudogene is present 1.5 Mb downstream on the q arm of chromosome 5. [provided by RefSeq, Apr 2011]

Product images:



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