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Product datasheet for KN224884

Nav1.7 (SCN9A) 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: Nav1.7

Locus ID: 6335

Components: **KN224884G1**, Nav1.7 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GTGAAATGGACAAAGCTCTG
KN224884G2, Nav1.7 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: ACAAAGCTCTGAGGTCCTGG
KN224884D, 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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TTCAGCTCCG GTTCCCAACG ATC

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.

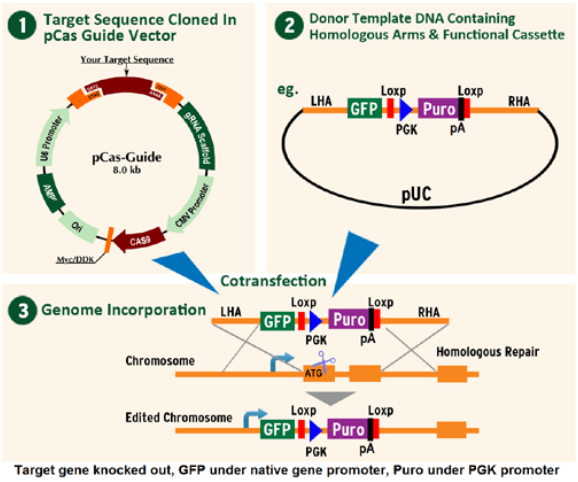
RefSeq: NM_002977, NM_001365536

UniProt ID: Q15858

Synonyms: ETHA; FEB3B; GEFSP7; HSAN2D; Nav1.7; NE-NA; NENA; PN1; SFNP

Summary: This gene encodes a voltage-gated sodium channel which plays a significant role in nociception signaling. Mutations in this gene have been associated with primary erythermalgia, channelopathy-associated insensitivity to pain, and paroxysmal extreme pain disorder. [provided by RefSeq, Aug 2009]

Product images:



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