

Product datasheet for KN205068BN

OriGene Technologies, Inc.

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GPR 164 (OR51E1) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control

Donor DNA: mBFP-Neo Symbol: GPR 164
Locus ID: 143503

Components: KN205068G1, GPR 164 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN205068G2, GPR 164 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN205068BND, donor DNA containing left and right homologous arms and mBFP-Neo

functional cassette.

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 152430
UniProt ID: Q8TCB6

Synonyms: D-GPCR; DGPCR; GPR136; GPR164; OR51E1P; OR52A3P; POGR; PSGR2

Summary: Olfactory receptors interact with odorant molecules in the nose, to initiate a neuronal

response that triggers the perception of a smell. The olfactory receptor proteins are members of a large family of G-protein-coupled receptors (GPCR) arising from single coding-exon genes. Olfactory receptors share a 7-transmembrane domain structure with many neurotransmitter and hormone receptors and are responsible for the recognition and G protein-mediated transduction of odorant signals. The olfactory receptor gene family is the largest in the genome. The nomenclature assigned to the olfactory receptor genes and

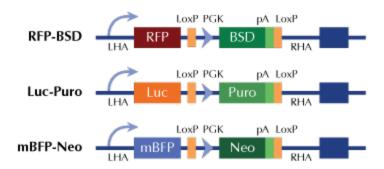
proteins for this organism is independent of other organisms. [provided by RefSeq, Jul 2008]





Product images:

Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter